



# SAFETY DATA SHEET

Revision Date 17-Dec-2018

Version 3

## 1. IDENTIFICATION

**Product Name** Adhesives/Sealants

**Product Code** OCRA00028

**Recommended Use** Adhesives and/or sealants

**UN/ID no.** UN3257

**Manufacturer Address** Owens Corning Roofing and Asphalt, LLC  
One Owens Corning Parkway  
Toledo, Ohio 43659

**Company Phone Number** 1-800-GET-PINK or 1-800-438-7465

**24 Hour Emergency Phone Number** Chemtrec 1-800-424-9300 or 1-703-741-5970 CCN17393

**Emergency Telephone** 1-419-248-5330 (after 5 pm ET and weekends)

## 2. HAZARDS IDENTIFICATION

**OSHA Regulatory Status** This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2

### Label elements

#### Warning

#### Hazard statements

Causes skin irritation  
Causes serious eye irritation



#### ERG Code

#### Eyes

IF exposed or concerned

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

#### Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Hazards not otherwise classified (HNOC) Not applicable

Unknown acute toxicity No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture  
Product Components

Chemical name	CAS No.	Weight-%	Trade Secret
Petroleum Asphalt (non-paving use)	8052-42-4	0-95	*
Asphalt, Oxidized (other uses)	64742-93-4	0-95	*
Styrene-Butadiene-Styrene Block Copolymer	9003-55-8	5-10	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

#### Description of First Aid Measures

- Eye contact**
- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
  - If eye irritation persists: Get medical advice/attention
- Skin contact**
- **HOT MATERIAL:**
  - Immediately drench or immerse area in water to assist in cooling
  - Apply iced water or ice packs to burned area
  - **DO NOT** use iced water or ice packs if the burned area covers more than 10% of the body, as this may contribute to shock
  - **DO NOT** try to remove product from burned area after it has cooled
  - Seek immediate medical attention/advice
  - Medical personnel can soften and remove cooled product with petroleum jelly or mineral oil
  - **COLD MATERIAL:**
  - Clean exposed skin with mild soap and water
  - If skin irritation persists, call a physician
- Inhalation**
- If respiratory symptoms develop, move victim to fresh air away from source of exposure and into fresh air
  - If breathing is difficult, give oxygen
  - If symptoms persist, call a physician
  - If breathing has stopped, give artificial respiration. Get medical attention immediately
- Ingestion**
- **DO NOT** induce vomiting
  - If vomiting occurs naturally have the person lean forward to reduce the risk of aspiration
  - Drink 1 or 2 glasses of water
  - Get medical attention
- Note to physicians**
- Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media**
- Treat as fuel oil or hydrocarbon fire
  - Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
  - Dry chemical



	<ul style="list-style-type: none"> <li>• Foam</li> <li>• Carbon dioxide (CO<sub>2</sub>)</li> <li>• Use water spray or fog; do not use straight streams</li> <li>• Use water to cool fire-exposed containers and to protect personnel</li> </ul>
<b>Unsuitable extinguishing media</b>	<ul style="list-style-type: none"> <li>• Do not use a solid water stream as it may scatter and spread fire</li> </ul>
<b>Specific hazards arising from the chemical</b>	<ul style="list-style-type: none"> <li>• Hot product may ignite flammable materials on contact</li> </ul>
<b>Hazardous combustion products</b>	<ul style="list-style-type: none"> <li>• Carbon monoxide</li> <li>• Carbon dioxide (CO<sub>2</sub>)</li> <li>• Oxides of sulfur</li> <li>• Hydrogen sulfide</li> </ul>
<b>Explosion data</b>	
<b>Sensitivity to Mechanical Impact</b>	• No
<b>Sensitivity to Static Discharge</b>	• No
<b>Protective equipment and precautions for firefighters</b>	<ul style="list-style-type: none"> <li>• As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear</li> </ul>

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	<ul style="list-style-type: none"> <li>• Avoid contact with eyes and skin</li> <li>• Evacuate personnel to safe areas</li> </ul>
<b>Environmental precautions</b>	<ul style="list-style-type: none"> <li>• Prevent further leakage or spillage if safe to do so</li> <li>• Avoid runoff into storm sewers, ditches and waterways</li> <li>• See Section 12 for ecotoxicology additional information</li> </ul>

### Methods and material for containment and cleaning up

<b>Methods for containment</b>	<ul style="list-style-type: none"> <li>• Contain spill with an inert absorbent material such as soil, sand or oil dry</li> <li>• Prevent from spreading by covering, diking or other means</li> </ul>
<b>Methods for cleaning up</b>	<ul style="list-style-type: none"> <li>• Use personal protective equipment as required</li> <li>• Take up mechanically, placing in appropriate containers for disposal</li> <li>• Clean contaminated surface thoroughly</li> <li>• Dam up</li> <li>• Cover liquid spill with sand, earth or other non-combustible absorbent material</li> </ul>

## 7. HANDLING AND STORAGE

<b>Precautions for safe handling</b>	<p>Avoid contact with skin, eyes or clothing</p> <p>Avoid breathing fumes from hot material</p> <p>Hydrogen sulfide, an extremely flammable, colorless, highly toxic gas is emitted from heated asphalt and may accumulate in storage tanks or bulk transport containers</p> <p>Handle in accordance with good industrial hygiene and safety practice</p>
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### Conditions for safe storage, including any incompatibilities

<b>Storage Conditions</b>	<ul style="list-style-type: none"> <li>• Keep in a dry, cool and well-ventilated place</li> <li>• Assure proper ventilation of storage or shipping containers to prevent accumulations of hazardous concentrations of off-gassed hydrocarbon gas or H<sub>2</sub>S</li> </ul>
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**Incompatible materials**

- Strong oxidizing agents
- Water

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH REL
Petroleum Asphalt (non-paving use) 8052-42-4	TWA: 0.5 mg/m <sup>3</sup> benzene-soluble aerosol fume, inhalable particulate matter	0.5 mg/m <sup>3</sup> Respirable/inhalable fraction	Ceiling: 5 mg/m <sup>3</sup> fume 15 min
Hydrogen sulfide 7783-06-4	STEL: 5 ppm TWA: 1 ppm	(vacated) TWA: 10 ppm (vacated) TWA: 14 mg/m <sup>3</sup> (vacated) STEL: 15 ppm (vacated) STEL: 21 mg/m <sup>3</sup> Ceiling: 20 ppm	IDLH: 100 ppm Ceiling: 10 ppm 10 min Ceiling: 15 mg/m <sup>3</sup> 10 min

*NIOSH REL Immediately Dangerous to Life or Health*

**Other Information**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Engineering Controls**

Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment****Eye/face protection**

- Wear safety glasses with side shields (or goggles)
- Wear face shield if splash hazard exist

**Skin and body protection**

- Wear protective gloves (heat insulated, leather, lined neoprene coated gloves are recommended when working with hot product)
- Wear long sleeved shirt and long pants (cotton or other thermal protective material is recommended)

**Respiratory protection**

- When workers are facing concentrations above the exposure limit they must use appropriate certified respirators in accordance with their company's respiratory protection program, local regulations or 29 CFR 1910.134
- If irritation occurs, wear an air purifying respirator with particulate and organic vapor cartridges
- Supplied air respirators or self-contained breathing apparatus should be used when concentrations of hydrogen sulfide exceeds the occupational exposure limit

**General Hygiene Considerations**

- Avoid contact with skin, eyes or clothing
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Shower after exposure
- Wash work clothes when soiled

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid - in bulk and heated
Odor	Petroleum
Color	Black, Brown
Melting point / freezing point	
Boiling point / boiling range	
Flash point	> 288 °C / > 550 °F
Water solubility	Insoluble in water
Autoignition temperature	> 343 °C / > 650 °F

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	• No data available
<b>Chemical stability</b>	• Stable under normal conditions
<b>Possibility of Hazardous Reactions</b>	• Hazardous polymerization does not occur
<b>Conditions to avoid</b>	• Heat, flames and sparks • Keep from possible contact with water when product is in liquid state
<b>Incompatible materials</b>	• Strong oxidizing agents • Water
<b>Hazardous Decomposition Products</b>	• Carbon dioxide (CO <sub>2</sub> ) • Carbon monoxide • Combustion products may include sulfur oxides and hydrogen sulfide

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	No data available
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Chemical name	Oral LD50	LD50/dermal/rat - NO UNITS (Wizards mg/kg)	Inhalation LC50
Asphalt, Oxidized (other uses) 64742-93-4	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-
Petroleum Asphalt (non-paving use) 8052-42-4	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-
Hydrogen sulfide 7783-06-4	-	-	= 700 mg/m <sup>3</sup> ( Rat ) 4 h

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Immediate Health Effects:</b>	Inhalation of vapors, fumes and/or mist may cause nose, throat, and mucous membrane irritation, and nausea, headaches or dizziness, and central nervous system depression, including drowsiness, loss of coordination, and unconsciousness. Eye contact may cause severe irritation, redness, tearing, and blurred vision. If ingested, may cause mouth, throat and gastrointestinal tract irritation and upset with possible nausea, vomiting and diarrhea. Aspiration of petroleum distillates into the lungs can cause severe chemical pneumonitis that can be fatal. See Section 8 for exposure controls
<b>Delayed Health Effects</b>	Prolonged or repeated skin contact may result in dryness and irritation of the skin. Prolonged contact with clothing saturated in petroleum distillates can cause second degree burns. Long term skin exposure to asphalt can increase sensitivity to the sun, and may cause discoloration
<b>Sensitization Germ cell mutagenicity Carcinogenicity</b>	No information available. None known. This petroleum based product contains a variable amount of polycyclic aromatic compounds (PACs) including polynuclear aromatic hydrocarbons (PAHs) which have been shown to cause cancer and respiratory damage in humans and laboratory animals.

Chemical name	ACGIH	IARC	NTP	OSHA
Asphalt, Oxidized (other uses) 64742-93-4	-	-	-	X
Trade Secret	-	Group 3	-	-

**Reproductive toxicity**  
**STOT - single exposure**  
**STOT - repeated exposure**  
**Target Organ Effects**  
**Aspiration hazard**

No information available.  
 No information available.  
 No information available.  
 Eyes, Respiratory system, Skin.  
 No information available.  
 mg/kg

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** • Harmful to aquatic life with long lasting effects

Chemical name	Algae/aquatic plants	Fish	Crustacea
Asphalt, Oxidized (other uses) 64742-93-4	56: 72 h Pseudokirchneriella subcapitata mg/L EC50	-	-
Hydrogen sulfide 7783-06-4	-	0.0448: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.016: 96 h Pimephales promelas mg/L LC50 flow-through	-

**Persistence and degradability** • No information available

**Bioaccumulation** • No information available

Chemical name	Partition coefficient
Petroleum Asphalt (non-paving use) 8052-42-4	>6
Hydrogen sulfide 7783-06-4	0.45

**Other adverse effects** • No information available

## 13. DISPOSAL CONSIDERATIONS

**Disposal of wastes** • Disposal should be in accordance with applicable regional, national and local laws and regulations

**Contaminated packaging** • Do not reuse container

## 14. TRANSPORT INFORMATION

**Note:** Non-bulk containers of solid material are not regulated  
Material heated at or above 100°C/212°F is regulated

### DOT

**UN/ID no.** UN3257  
**Proper shipping name** Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point  
**Hazard class** 9  
**Packing group** III  
**Special Provisions** IB1, T3, TP3, TP29  
**Description** UN3257, Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point (<TND>), 9, III  
**Emergency Response Guide** 128

**Number****TDG**

**UN/ID no.** UN3257  
**Proper shipping name** Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point  
**Hazard class** 9  
**Packing group** III  
**Description** UN3257, Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point, 9, III

**MEX**

**UN/ID no.** UN3257  
**Proper shipping name** Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point  
**Hazard class** 9  
**Packing group** III  
**Description** UN3257, Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point, 9, III

**ICAO (air)** Forbidden Not regulated

**IATA** Forbidden Not regulated

**IMDG**

**UN number** UN3257  
**UN proper shipping name** Elevated temperature liquid, n.o.s.\*  
**Transport hazard class(es)** 9  
**Packing group** III  
**EmS-No.** F-A, S-P  
**Special Provisions** 232, 274

## 15. REGULATORY INFORMATION

**International Inventories**

Chemical name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Petroleum Asphalt (non-paving use) 8052-42-4	X	X		X			X	X	X	X
Asphalt, Oxidized (other uses) 64742-93-4	X	X		X			X	X	X	X
Styrene-Butadiene-Styrene Block Copolymer 9003-55-8	X	X				X	X	X	X	X

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
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Hydrogen sulfide - 7783-06-4	1.0
Polycyclic Aromatic Hydrocarbons - 130498-29-2	0.1

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrogen sulfide 7783-06-4	100 lb	-	-	X
Polycyclic Aromatic Hydrocarbons 130498-29-2	-	X	-	-

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrogen sulfide 7783-06-4	100 lb	100 lb	RQ 100 lb final RQ RQ 45.4 kg final RQ

**US State Regulations****California Proposition 65****Warning**

This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Chemical name	California Proposition 65
Bitumen, extracts of steam-refined and air refined 9999-99-9	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Asphalt, Oxidized (other uses) 64742-93-4	X	-	-
Petroleum Asphalt (non-paving use) 8052-42-4	X	X	X
Hydrogen sulfide 7783-06-4	X	X	X
Polycyclic Aromatic Hydrocarbons 130498-29-2	X	-	X

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

**Revision Date** 17-Dec-2018  
**Revision Note** SDS sections updated 13

**Disclaimer**

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use

**End of Safety Data Sheet**

## 1. IDENTIFICATION

### AGILE<sup>®</sup> Fast-Grab Premium Carpet Adhesive

Recommended use of the chemical and restriction on use:  
interior installation of flooring material over approved  
subfloors – all non-vinyl backed carpet in direct glue down and  
double stick installations.

**Company:** W.F. Taylor LLC 800 College Drive, Dalton, GA  
30720, USA, (800) 868-4583

**Emergency Telephone Number:** (800) 535-5053

### Other Means of Identification

**Chemical Family:** Synthetic latex and hydrocarbon resin blend

## 2. HAZARDS IDENTIFICATION

According to regulation 2012 OSHA Hazard Communication  
Standard: 29 CFR Part 1910.1200

### Classification of the Product

No need for classification according to GHS criteria for this  
product.

### Label Elements

This product does not require a hazard warning label in  
accordance with GHS criteria.

### Hazards Not Otherwise Classified

None known if used according to instructions.  
Irritation may occur when in contact with eyes and skin.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

According to Regulation 1994 OSHA Hazard Communication  
Standard: 29 CFR Part 1910.1200

This product does not contain any components classified as  
hazardous under the referenced regulation.

CAS #	Content	Chemical Name
Trade Secret	1 - 10	Tackifier resin
Trade Secret	1 - 10	SBR latex
1332-58-7	15 - 25	Kaolin clay
7732-18-5	25 - 40	Water

## 4. FIRST AID MEASURES

**General Advice:** Upon contact, remove material from skin,  
eyes and clothing. If irritation persists, seek medical attention.

**If Inhaled:** Remove individual to fresh air if needed.

**If on Skin:** Wash with mild soap and water.

**If in Eyes:** Open eyelids and flush with running water for  
at least 15 minutes.

**If Swallowed:** Do not induce vomiting. Seek medical help  
immediately.

**Most Important Symptoms and Effects, Both Acute and  
Delayed:** None expected due to non-classification of the  
product.

### Indication of Any Immediate Medical Attention and Special

**Treatment Needed:** Note to physician - Symptomatic  
Treatment

## 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

None needed in wet state. Product is water based. Dry  
material will burn. Use water spray, foam, dry powder when  
needed.

### Special Hazards Arising from the Substance or Mixture

Material is a mixture of organic compounds. Compounds of  
carbon may arise during burning.

*Advice for fire-fighters:* Wear self-contained breathing  
apparatus and turn out gear.

### Further Information

Dispose debris and contaminated clothing in accordance with  
regulations.

## 6. ACCIDENTAL RELEASE MEASURES

**Further Accidental Release Measures:** Slip hazard when spilled.

### Personal Precautions Protective Equipment and Emergency

**Procedures:** Use personal protective clothing. Avoid contact  
with skin and eyes.

**Environmental Precautions:** Do not release spilled material into  
natural waters.

### Methods and Material for Containment and Cleaning Up:

Pick up with suitable absorbent material. Dispose of absorbed  
material in accordance with regulations. Spills should be  
contained, solidified, and placed in suitable containers for  
disposal.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Do not puncture. Keep out of the reach of children.

### Conditions for Safe Storage, Including any Incompatibilities

Keep from freezing. Avoid extreme temperatures.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### Advice on System Design

Maintain proper ventilation.

### Personal Protective Equipment:

**Respiratory Protection:** NIOSH respirator if needed. Use local  
exhaust ventilation. Do not use closed air-circulating system.

**Skin Protection:** Chemical resistant gloves, apron, coveralls,  
and boots to prevent unnecessary contact.

**Eye Protection:** Safety glasses, goggles, or face shield

### General Safety and Hygiene Safety Measures:

Wash hands and/or face after use. Launder contaminated  
clothing before re-use. Always use protective equipment to  
avoid direct contact.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form:** Medium Viscosity Liquid  
**Odor:** Mild  
**Odor Threshold:** No data  
**Color:** Off white to cream  
**pH Value:** 9.8 - 10  
**Melting Point:** Not applicable  
**Boiling Point:** Similar to water  
**Flash Point:** Not applicable  
**Flammability:** Non flammable  
**Lower Explosion Limit:** Low  
**Upper Explosion Limit:** Low  
**Vapor Pressure:** Low  
**Density:** 9.3 - 9.9 lbs. per gallon  
**Relative Density:** 1.11 - 1.19 grams/cm<sup>3</sup>  
**Vapor Density:** Low  
**Partition Coefficient n-octanol/water (log Pow):** No data  
**Self-Ignition Temperature:** Not Applicable  
**Solubility in Water:** Limited  
**Miscibility in Water:** Miscible  
**Evaporation Rate:** Same as water

### 10. STABILITY AND REACTIVITY

**Reactivity:** Stable  
**Chemical Stability:** Stable  
**Possibility of Hazardous Reactions:** None, product is stable  
**Conditions to avoid:** Extreme temperatures  
**Incompatible Materials:** None known  
**Hazardous Decomposition Products:** None known

### 11. TOXICOLOGICAL INFORMATION

No Data Available  
**Primary routes of exposure:** Respiratory, eyes, skin. Ingestion is not likely but might cause gastric disturbances.  
**Acute Toxicity/Effects**  
 Acute toxicity: May cause irritation upon contact.  
**Chronic Toxicity Effects**  
**Repeated Dose Toxicity:** No data available  
**Genetic Toxicity:** No data available  
**Carcinogenicity:** Not carcinogenic  
**Reproductive Toxicity:** No data available  
**Teratogenicity:** No data available  
**Experiences in Humans:** No data available

### 12. ECOLOGICAL INFORMATION

No data available

### 13. DISPOSAL CONSIDERATIONS

Abide by all state, federal and local regulations

### 14. TRANSPORTATION INFORMATION

**Proper Shipping Name:** Not applicable  
**Proper Hazard Class:** Not hazardous  
**Hazard Code:** None hazardous  
**Bill of Lading Description:** Adhesives, NOI  
**Land Transport USDOT:** Not considered as a dangerous goods under transport regulations  
**Sea Transport IMDG:** Not considered as a dangerous goods under transport regulations  
**Air Transport IATA:** Not considered as a dangerous goods under transport regulations

### 15. REGULATORY INFORMATION

#### Federal Regulations:

#### **Registration Status:**

TSCA: Chemicals contained in the product are either listed or exempt in the U.S. EPA TSCA inventory list.  
 SARA Title III, Section 312 Hazard Class: None  
 EPA SARA Title III Section 312: None  
 State Regulations:  
 CA Prop 65:

Warning: This product may contain a chemical (s) known to the state of California to cause cancer and birth defects or other reproductive harm.

#### **NFPA Hazard Codes:**

Health: 1                      Fire: 0  
 Reactivity: 0              Special:

#### **HMIS rating:**

Health: 1                      Flammability: 0                      Physical Hazard: 0

### 16. OTHER INFORMATION

**SDS prepared by:** W.F. Taylor, LLC SDS Group

**SDS prepared on:** July 19, 2016

*W.F. Taylor, LLC (Taylor) believes the data set forth herein is accurate as of the date hereof. Taylor makes no warranty with respect hereto and expressly disclaims all liability of reliance thereon. All data is offered solely for consideration, investigation, and verification.*





# SAFETY DATA SHEET

## 1. Identification

Product identifier	Fusion Clear PVC Cement
Other means of identification	
SDS number	1127E
Synonyms	Part Numbers: 32192
Recommended use	Joining PVC Pipes
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/Distributor information	
Company Name	Oatey Co.
Address	4700 West 160th St. Cleveland, OH 44135
Telephone	216-267-7100
E-mail	info@oatey.com
Transport Emergency	Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)
Emergency First Aid	1-877-740-5015
Contact person	MSDS Coordinator

## 2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 2
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Aspiration hazard	Category 1
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Danger
Hazard statement	Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.
Precautionary statement	
Prevention	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection.
Response	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.



**Hazard(s) not otherwise classified (HNOC)**

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

**Supplemental information**

None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	CAS number	%
Cyclohexanone	108-94-1	40-50
Acetone	67-64-1	30-40
Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC;	9002-86-2	10-20
Methyl ethyl ketone	78-93-3	11
Colloidal silicon dioxide	112945-52-5	1-5

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

#### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

#### Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

#### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

#### Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

#### Most important symptoms/effects, acute and delayed

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

#### Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

#### General information

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

#### Suitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

#### Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

#### Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

#### Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

#### General fire hazards

Highly flammable liquid and vapor.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.



**Methods and materials for containment and cleaning up**

Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water.

**Large Spills:** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

**Small Spills:** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

**Environmental precautions****7. Handling and storage****Precautions for safe handling**

Store in a well-ventilated place. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure controls/personal protection****Occupational exposure limits****U.S. - OSHA**

Components	Type	Value	Form
Colloidal silicon dioxide (CAS 112945-52-5)	TWA	0.8 mg/m3	Unspecified.
		20 mppcf	Unspecified.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Components	Type	Value
Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2)	STEL	5 ppm
	TWA	1 ppm

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value
Acetone (CAS 67-64-1)	PEL	2400 mg/m3
		1000 ppm
Cyclohexanone (CAS 108-94-1)	PEL	200 mg/m3
		50 ppm
Methyl ethyl ketone (CAS 78-93-3)	PEL	590 mg/m3
		200 ppm

**US. OSHA Table Z-3 (29 CFR 1910.1000)**

Components	Type	Value	Form
Colloidal silicon dioxide (CAS 112945-52-5)	TWA	0.8 mg/m3	
		20 mppcf	



**US. OSHA Table Z-3 (29 CFR 1910.1000)**

Components	Type	Value	Form
Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm	
	TWA	20 ppm	
Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2)	TWA	3 mg/m3	Respirable particles.
Methyl ethyl ketone (CAS 78-93-3)	STEL	300 ppm	
	TWA	200 ppm	

**U.S. - NIOSH**

Components	Type	Value	Form
Colloidal silicon dioxide (CAS 112945-52-5)	REL	6 mg/m3	Unspecified.

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
Acetone (CAS 67-64-1)	TWA	590 mg/m3
		250 ppm
Colloidal silicon dioxide (CAS 112945-52-5)	TWA	6 mg/m3
Cyclohexanone (CAS 108-94-1)	TWA	100 mg/m3
		25 ppm
Methyl ethyl ketone (CAS 78-93-3)	STEL	885 mg/m3
	TWA	300 ppm
		590 mg/m3
		200 ppm

**Biological limit values**
**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	25 mg/l	Acetone	Urine	*
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Cyclohexanediol, with hydrolysis	Urine	*
	8 mg/l	Cyclohexanol, with hydrolysis	Urine	*
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	MEK	Urine	*

\* - For sampling details, please see the source document.



## Exposure guidelines

### US - California OELs: Skin designation

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

### US - Minnesota Haz Subs: Skin designation applies

Cyclohexanone (CAS 108-94-1)

Skin designation applies.

### US - Tennessee OELs: Skin designation

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

### US ACGIH Threshold Limit Values: Skin designation

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

### US. NIOSH: Pocket Guide to Chemical Hazards

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

## Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

## Individual protection measures, such as personal protective equipment

### Eye/face protection

Face shield is recommended. Wear safety glasses with side shields (or goggles).

### Skin protection

#### Hand protection

Wear protective gloves.

### Skin protection

#### Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

### Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

## General hygiene considerations

When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

#### Physical state

Liquid.

#### Form

Translucent.

#### Color

Clear.

### Odor

Solvent.

### Odor threshold

Not available.

### pH

Not available.

### Melting point/freezing point

Not available.

### Initial boiling point and boiling range

151 °F (66.11 °C)

### Flash point

-4.0 °F (-20.0 °C)

### Evaporation rate

5.5 - 8

### Flammability (solid, gas)

Not applicable.

### Upper/lower flammability or explosive limits

#### Flammability limit - lower (%)

1.8

#### Flammability limit - upper (%)

11.8

#### Explosive limit - lower (%)

Not available.

#### Explosive limit - upper (%)

Not available.

### Vapor pressure

145 mm Hg @ 20°C

### Vapor density

2.5

### Relative density

0.93 g/cm<sup>3</sup> +/- 0.02



<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Negligible.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	3000 cP
<b>Viscosity temperature</b>	77 °F (25 °C)
<b>Other information</b>	
<b>Bulk density</b>	0.93
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.
<b>VOC</b>	375 g/l SCAQMD 1168/M316A

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Acids. Strong oxidizing agents. Ammonia. Amines. Isocyanates. Caustics.
<b>Hazardous decomposition products</b>	Hydrogen chloride. Phosgene.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	May be harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
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### Information on toxicological effects

<b>Acute toxicity</b>	May be fatal if swallowed and enters airways.
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Components	Species	Test Results
Acetone (CAS 67-64-1)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 15700 mg/kg, 24 Hours
<i>Inhalation</i>		
LC50	Rat	76 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	5800 mg/kg
Cyclohexanone (CAS 108-94-1)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	948 mg/kg
<i>Inhalation</i>		
LC50	Rat	8000 ppm, 4 hours



Components	Species	Test Results
Oral LD50	Rat	800 mg/kg
<b>Skin corrosion/irritation</b>	Causes skin irritation. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).	
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Carcinogenicity</b>	This product contains polyvinyl chloride (PVC) that is not a fabricated product, and is therefore, defined and regulated as a toxic and hazardous substance under 29 C.F.R. § 1910.1017 due to the presumed presence of residual vinyl chloride monomer. The concentrations of residual vinyl chloride calculated to be contained in this product are well below the threshold for classification in accordance with 29 C.F.R. § 1910.1200.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Colloidal silicon dioxide (CAS 112945-52-5)	3 Not classifiable as to carcinogenicity to humans.	
Cyclohexanone (CAS 108-94-1)	3 Not classifiable as to carcinogenicity to humans.	
Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2)	3 Not classifiable as to carcinogenicity to humans.	
<b>NTP Report on Carcinogens</b>		
Not listed.		
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>		
Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2)	Cancer	
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	May cause drowsiness and dizziness.	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.	
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.	
<b>Chronic effects</b>	Prolonged inhalation may be harmful.	

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species		Test Results
Acetone (CAS 67-64-1)			
Aquatic			
Acute			
Crustacea	LC50	Daphnia pulex	8800 mg/l, 48 Hours
Fish	LC50	Pimephales promelas	7163 mg/l, 96 Hours
Chronic			
Crustacea	NOEC	Daphnia magna	> 79 mg/l, 21 days
Cyclohexanone (CAS 108-94-1)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	481 - 578 mg/l, 96 hours
Persistence and degradability		No data is available on the degradability of this product.	
Bioaccumulative potential			
Partition coefficient n-octanol / water (log Kow)			
Cyclohexanone (CAS 108-94-1)	0.81		
Methyl ethyl ketone (CAS 78-93-3)	0.29		
Mobility in soil		No data available.	



**Other adverse effects** The product contains volatile organic compounds which have a photochemical ozone creation potential.

### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

#### DOT

**UN number** UN1993

**UN proper shipping name** Flammable liquids, n.o.s. (Acetone RQ = 16393 LBS, Methyl ethyl ketone RQ = 45455 LBS)

**Transport hazard class(es)**

**Class** 3

**Subsidiary risk** -

**Label(s)** 3

**Packing group** II

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Special provisions** IB2, T7, TP1, TP8, TP28

**Packaging exceptions** 150

**Packaging non bulk** 202

**Packaging bulk** 242

#### IATA

**UN number** UN1993

**UN proper shipping name** Flammable liquid, n.o.s. (Acetone, Methyl ethyl ketone)

**Transport hazard class(es)**

**Class** 3

**Subsidiary risk** -

**Packing group** II

**Environmental hazards** No.

**ERG Code** 3H

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

#### IMDG

**UN number** UN1993

**UN proper shipping name** FLAMMABLE LIQUID, N.O.S. (Acetone, Methyl ethyl ketone)

**Transport hazard class(es)**

**Class** 3

**Subsidiary risk** -

**Packing group** II

**Environmental hazards**

**Marine pollutant** No.

**EmS** F-E, S-E

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

### 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.



**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; Cancer  
(CAS 9002-86-2)

Central nervous system  
Liver  
Blood  
Flammability

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Acetone (CAS 67-64-1) LISTED  
Cyclohexanone (CAS 108-94-1) LISTED  
Methyl ethyl ketone (CAS 78-93-3) LISTED

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** Yes

**SARA 313 (TRI reporting)**  
Not regulated.

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

Acetone (CAS 67-64-1) 6532  
Methyl ethyl ketone (CAS 78-93-3) 6714

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

Acetone (CAS 67-64-1) 35 %WV  
Methyl ethyl ketone (CAS 78-93-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number**

Acetone (CAS 67-64-1) 6532  
Methyl ethyl ketone (CAS 78-93-3) 6714

**US state regulations** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**US. Massachusetts RTK - Substance List**

Acetone (CAS 67-64-1)  
Colloidal silicon dioxide (CAS 112945-52-5)  
Cyclohexanone (CAS 108-94-1)  
Methyl ethyl ketone (CAS 78-93-3)

**US. New Jersey Worker and Community Right-to-Know Act**

Acetone (CAS 67-64-1)  
Cyclohexanone (CAS 108-94-1)  
Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2)  
Methyl ethyl ketone (CAS 78-93-3)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Acetone (CAS 67-64-1)  
Colloidal silicon dioxide (CAS 112945-52-5)  
Cyclohexanone (CAS 108-94-1)  
Methyl ethyl ketone (CAS 78-93-3)

**US. Rhode Island RTK**

Acetone (CAS 67-64-1)



Cyclohexanone (CAS 108-94-1)  
Methyl ethyl ketone (CAS 78-93-3)

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date	18-November-2016
Revision date	-
Version #	01
HMIS® ratings	Health: 3 Flammability: 3 Physical hazard: 0

#### NFPA ratings



#### Disclaimer

Oatey Co. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.



## Material Safety Data Sheet

MSDS No: GB-1501

Gold Bond® BRAND Gypsum Board Products

Page 1 of 7  
Date: January 14, 2015  
Supersedes Date: November 5, 2014

### 1. PRODUCT AND COMPANY INFORMATION

#### Manufacturer Information:

National Gypsum Company  
2001 Rexford Road  
Charlotte, NC 28211

#### For Emergency Product Information Call:

Director Quality Services  
(704) 551-5820 - 24 Hour Emergency Response  
Website: [www.nationalgypsum.com](http://www.nationalgypsum.com)

#### Product Name

1/2" Gypsum Board – Square Edge  
1/2" Gypsum Board – Tapered Edge  
1/4" Gypsum Board – Tapered Edge  
3/8" Gypsum Board – Tapered Edge  
1/2" FS C Gypsum Board  
5/8" Fire-Shield® Gypsum Board  
5/8" Fire-Shield® C Gypsum Board  
1/2" Sta-Smooth® Gypsum Board  
1/2" FS C Sta-Smooth® Gypsum Board  
5/8" FS Sta-Smooth® Gypsum Board  
1/2" Durabase® Gypsum Board  
5/16" Durabase® Gypsum Board

#### Product Name

1/2" High Strength Ceiling Board  
1/4" High Flex® Gypsum Board  
1/2" Foil Back Gypsum Board  
5/8" FS Foil Back Gypsum Board  
1/2" High Strength LITE Gypsum Board  
5/8" High Strength Fire-Shield LITE Gypsum Board  
5/8" High Strength Fire-Shield LITE 30 Gypsum Board  
3/4" Ultra-Shield™ Gypsum Board  
3/4" Ultra-Shield™ XP® Gypsum Board  
Gypsum Board Reclaim  
1/2" MMR

Use: Gypsum Board products are designed for specific applications that require properties such as: fire resistance, moisture resistance, abrasion resistance, sag resistance and other properties required for applications in walls and ceiling assemblies.

Generic Article Composite. Fire resistant and/or moisture resistant gypsum core encased in  
Descriptions: paper on front and back sides.

### 2. HAZARDS IDENTIFICATION

Appearance and Odor: A gypsum core wrapped with paper. Surface finish will vary with product. No odor.

Contains no asbestos. HMIS Hazard Class No. 1, 0, 0.

#### Emergency Overview

Gold Bond® BRAND Board Products do not present an inhalation, ingestion, or contact health hazard unless subjected to operations such as sawing, sanding or machining which result in the generation of airborne particulate. This product contains quartz (crystalline silica) as a naturally occurring contaminant. It is recommended that a NIOSH approved particulate respirator be worn whenever working with this product results in airborne dust exposure exceeding the prescribed limits.  
(See Section 11 - Toxicological Information)



**2. HAZARDS IDENTIFICATION (CONTINUED)****OSHA Regulatory Status**

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

**Potential Health Effects**

Primary Routes of Entry: Inhalation, Dermal contact

Target Organs: Respiratory system, skin, eyes.

Inhalation: Acute exposure to airborne dust concentrations in excess of the PEL/TLV may result in coughing, dyspnea, wheezing, general irritation of the nose, throat, and upper respiratory tract, and impaired pulmonary function. Chronic exposures may result in lung disease (silicosis and/or lung cancer). (See Section 11 - Toxicological Information)

Exposures to respirable crystalline silica have not been documented during normal use of this product. However, good housekeeping practices and industrial hygiene monitoring is recommended when the potential for significant exposure exists.

Skin Contact: Continued and prolonged contact may result in dry skin. Contact with dust or glass fibers may produce itching, rash and/or redness. Repeated or prolonged exposure may result in dermatitis.

Eye Contact: Direct contact may cause mechanical irritation.

Ingestion: No known adverse effects. May result in obstruction or temporary irritation of the digestive tract.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b><u>Component</u></b>	<b><u>CAS-Number</u></b>	<b><u>Weight Percent</u></b>
Calcium Sulfate Dihydrate (Gypsum)	10101-41-4	85-95
Crystalline Silica (Quartz)	14808-60-7	<5
Cellulose (Paper Fiber)	9004-34-6	5-15
And may contain:		
Fiberglas, synthetic, vitreous, continuous	65997-17-3	<1%

**4. FIRST AID MEASURES**

- **Inhalation:** Remove exposed individual to fresh air immediately. If breathing difficulty persists, seek medical attention.
- **Skin:** Flush and wash skin with soap and water. Utilize lotions to alleviate dryness if present. Seek medical attention if irritation persists.
- **Eye:** Immediately flush eyes with water for 15 minutes. Remove contact lenses (if applicable). Seek medical attention if irritation persists.
- **Ingestion:** Gypsum is non-hazardous and no harmful effects are expected upon ingestion of small amounts. Larger amounts may cause abdominal discomfort or possible obstruction of the digestive tract. Seek medical attention if problems persist.

**5. FIRE FIGHTING MEASURES****Flammable Properties**

- Not flammable or combustible
- NFPA Hazard Class No: 1/0/0

**Extinguishing media**

- Dry chemical, foam, water, fog or spray

**Protection of firefighters**

- Standard protective equipment and precautions

**Fire and Explosion Hazards**

- None

**Hazardous Combustion Products**

- None
- Above 1450°C, material can decompose and release sulfur dioxide (SO<sub>2</sub>) and oxides of carbon.

**6. ACCIDENTAL RELEASE MEASURES**

Not applicable, as product is an article composite.

**General recommendations:**

- Wear appropriate Personal Protective Equipment. (See Section 8)
- Maintain proper ventilation.
- Pick-up larger pieces to avoid a tripping hazard. Return large pieces of damaged/scraped material for recycling. Sweep or vacuum remaining material into a waste container for disposal. Use a light water spray to minimize dust generation.
- Waste material is not a hazardous waste. Dispose of in accordance with applicable federal, state, and local regulations.

**7. HANDLING AND STORAGE**

- Avoid contact with eyes, skin and clothing.
- Wear recommended personal protective equipment when handling. (See Section 8)
- Avoid breathing dust.
- Minimize generation of dust.
- Utilize proper lifting techniques when moving product and employ mechanical/ergonomic assistance when possible (i.e. move with forklifts, hold in place with lifts) to minimize the risk of back injury.
- Store material in a cool, dry, ventilated area.
- Store panels flat to minimize damage and warping.
- Do not stack panels too high when storing to minimize the risk of falling.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines**

	<b>Exposure Limits</b>	
<b>Component</b>	<b>OSHA PEL (mg/m3)</b>	<b>ACGIH TLV (mg/m3)</b>
Calcium Sulfate Dihydrate (Gypsum)	15 <sup>(T)</sup> 5 <sup>(R)</sup>	10 <sup>(T)</sup>
Crystalline Silica (Quartz)	0.1 <sup>(R)</sup>	0.025 <sup>(R)</sup>
Cellulose (Paper Fiber)	15 <sup>(T)</sup> 5 <sup>(R)</sup>	10 <sup>(T)</sup>
Fiberglas, synthetic, vitreous, continuous	15 <sup>(T)</sup> 5 <sup>(R)</sup>	1 f/cc <sup>(R)</sup>

T- Total Dust  
R- Respirable Dust

**Engineering Controls**

- Work/Hygiene Practices: The score and snap method of cutting is recommended. Sawing, drilling or machining will produce dust.
- Ventilation: Provide local and general exhaust ventilation to maintain a dust level below the PEL/TLV.
- Utilize wet methods, when appropriate, to reduce generation of dust.

**Personal Protective Equipment**

- Respiratory Protection: A NIOSH approved particulate respirator is recommended in poorly ventilated areas or if the PEL/TLV is exceeded. OSHA's 29 CFR 1910.134 (Respiratory Protection Standard) must be followed whenever work conditions require respirator use.
- Eye Protection: Safety glasses or goggles.



- Skin: Gloves, protective clothing and/or barrier creams may be utilized if conditions warrant.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Paper faced gypsum boards with white/gray core  
**Odor:** None  
**Physical State:** Solid  
**Ph:** ~7  
**Solubility (H<sub>2</sub>O):** 2.1 g/L @ 20°C  
**Boiling, Freezing, Melting Point:** Not Applicable  
**Decomposition Temperature:** 1450°C  
**Vapor pressure:** Not Applicable  
**Vapor density:** Not Applicable  
**Volatile organic compounds (VOC) content:** None

**Flammability:** Not Applicable  
**Flash Point:** Not Applicable  
**Upper/Lower explosive limits:** Not applicable  
**Auto-ignition temperature:** Not Applicable  
**Partition coefficient: n-octanol/water:** Not applicable  
**Evaporation rate:** Not Applicable  
**Molecular weight:** 172.2 grams  
**Molecular formula:** CaSO<sub>4</sub>·2H<sub>2</sub>O  
**Specific Gravity:** 2.31 g/cc  
**Bulk Density:** ~55 lb/ft<sup>3</sup>

## **10. STABILITY AND REACTIVITY**

**Chemical stability:** Stable in dry environments.

**Conditions to avoid:** Contact with strong acids may result in generation of carbon dioxide.

**Incompatibility:** None

**Hazardous decomposition:** Above 1450°C gypsum will decompose to calcium oxide (CaO), with releases of sulfur dioxide (SO<sub>2</sub>) and various oxides of carbon.

**Hazardous polymerization:** Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

Data presented is for the major component of this product: Gypsum (calcium sulfate dihydrate)

### **Human Data**

There is no information on toxicokinetics, metabolism and distribution.

There have been reports of irritation to mucus membranes of the eyes and respiratory tract upon acute exposure to dusts in excess of the recommended limits.

Chronic exposure to crystalline silica (a naturally occurring contaminant in gypsum) in the respirable size has been shown to cause silicosis, a debilitating lung disease. In addition, the International Agency for Research on Cancer (IARC) classifies crystalline silica inhaled in the form of quartz or cristobalite from occupational sources as carcinogenic to humans, Group 1. The National Toxicology Program (NTP) classifies respirable crystalline silica as a substance which may be reasonably anticipated to be a carcinogen. OSHA does not regulate crystalline silica as a human carcinogen. Industrial hygiene monitoring to date has not identified any detectable respirable crystalline silica in dust sampling conducted during gypsum panel installation utilizing recommended procedures.

### **Animal Data**

The acute oral toxicity study [OECD TG 420, Fixed dose procedure] of calcium sulfate dihydrate showed that this chemical did not cause any changes even at 2,000 mg/kg b.w. Therefore, the oral LD<sub>50</sub> value was more than 2,000-mg/kg b.w. for female rats (Sprague-Dawley).

Calcium sulfate, dihydrate was not irritating to the skin of rabbits at 1, 24, 48 and 72 hours after removal of test patches [OECD TG 404]. There is no indication of skin sensitization in guinea pigs [OECD TG 406].

*In vivo* and *In vitro* studies for mutagenicity were negative.

Reproduction/Developmental Toxicity Screening Tests were negative.

## **12. ECOLOGICAL INFORMATION**

This product does not present an ecological hazard to the environment.

### **Ecotoxicological Information**

Toxicity studies performed with fish, aquatic invertebrates and aquatic plants showed no toxic effect.

### **Environmental Fate**

Gypsum is a naturally occurring mineral. Biodegradation and/or bioaccumulation potential is not applicable.

## **13. DISPOSAL CONSIDERATIONS**

- Dispose of according to Local, State, Federal, and Provincial Environmental Regulations.
- Recycle if possible.

## **14. TRANSPORT INFORMATION**

- This product is not a DOT hazardous material
- Shipping Name: Same as product name
- ICAO/IATA/IMO: Not applicable

## **15. REGULATORY INFORMATION**

All ingredients are included on the TSCA inventory.

### **Federal Regulations**

**SARA Title III:** Not listed under Sections 302, 304, and 313

**CERCLA:** Not listed

**RCRA:** Not listed

**OSHA:** Dust and potential respirable crystalline silica generated during product use may be hazardous.

### **State Regulations**

California Prop 65: Respirable crystalline silica is known to the state of California to cause cancer. Industrial hygiene monitoring during recommended use of this product failed to identify any respirable crystalline silica.

### **Canada WHMIS**

All components of this product are included in the Canadian Domestic Substances List (DSL).

Crystalline silica: WHMIS Classification D2A

## **16. OTHER INFORMATION**

### **MSDS Revision Summary**

Effective Date Change: 01/14/15

Format Changes: ½" MMR was added

Supersedes: 11/05/14



**16. OTHER INFORMATION (CONTINUED)****Key/Legend**

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstract Services Number
CFR	Code of Federal Regulations
DOT	Department of Transportation
EPA	Environmental Protection Agency
HEPA	High Efficiency Particulate Air
HMIS	Hazardous Material Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMO	International Maritime Organization
NIOSH	National Institute for Occupational Safety and Health
NFPA	National Fire Protection Association
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PPE	Personal Protective Equipment
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This material safety data sheet was prepared to comply with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and with the Workplace Hazardous Materials Information System (WHMIS).

**Disclaimer of Liability:**

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## SAFETY DATA SHEET

### 1. Identification

**Product identifier** Oatey Purple Primer- NSF Listed for PVC and CPVC

**Other means of identification**

**Product code** 1402E

**Synonyms** Part Numbers: 30755(TV), 30756(TV), 30757(TV), 30758, 30759, 30927

**Recommended use** Joining PVC Pipes

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Company Name** Oatey Co.

**Address** 4700 West 160th St.  
Cleveland, OH 44135

**Telephone** 216-267-7100

**E-mail** info@oatey.com

**Transport Emergency** Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

**Emergency First Aid** 1-877-740-5015

**Contact person** MSDS Coordinator

### 2. Hazard(s) identification

**Physical hazards** Flammable liquids Category 2

**Health hazards** Acute toxicity, oral Category 4

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

**OSHA defined hazards** Not classified.

#### Label elements



#### Signal word

Danger

#### Hazard statement

Highly flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

#### Precautionary statement

##### Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

##### Response

If swallowed: Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.



<b>Storage</b>	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May form explosive peroxides. Contains a chemical classified by the US EPA as a suspected possible carcinogen.
<b>Supplemental information</b>	Not applicable.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	CAS number	%
Acetone	67-64-1	25-40
Cyclohexanone	108-94-1	25-40
Furan, Tetrahydro-	109-99-9	15-30
Methyl ethyl ketone	78-93-3	15-30

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	Call a physician or poison control center immediately. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may cause pulmonary edema and pneumonitis.
<b>Most important symptoms/effects, acute and delayed</b>	Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Skin irritation. May cause redness and pain.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Highly flammable liquid and vapor. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age.



## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

**Large Spills:** Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

**Small Spills:** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

### Environmental precautions

## 7. Handling and storage

### Precautions for safe handling

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Acetone (CAS 67-64-1)	PEL	2400 mg/m3 1000 ppm
Cyclohexanone (CAS 108-94-1)	PEL	200 mg/m3 50 ppm
Furan, Tetrahydro- (CAS 109-99-9)	PEL	590 mg/m3 200 ppm
Methyl ethyl ketone (CAS 78-93-3)	PEL	590 mg/m3 200 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Acetone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm
	TWA	20 ppm
Furan, Tetrahydro- (CAS 109-99-9)	STEL	100 ppm



**US. ACGIH Threshold Limit Values**

Components	Type	Value
Methyl ethyl ketone (CAS 78-93-3)	TWA	50 ppm
	STEL	300 ppm
	TWA	200 ppm

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
Acetone (CAS 67-64-1)	TWA	590 mg/m3
		250 ppm
Cyclohexanone (CAS 108-94-1)	TWA	100 mg/m3
		25 ppm
Furan, Tetrahydro- (CAS 109-99-9)	STEL	735 mg/m3
		250 ppm
		590 mg/m3
Methyl ethyl ketone (CAS 78-93-3)	STEL	200 ppm
		885 mg/m3
	TWA	300 ppm
		590 mg/m3
		200 ppm

**Biological limit values****ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Cyclohexanediol, with hydrolysis	Urine	*
		Cyclohexanol, with hydrolysis	Urine	*
Furan, Tetrahydro- (CAS 109-99-9)	2 mg/l	Tetrahydrofuran	Urine	*
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	MEK	Urine	*

\* - For sampling details, please see the source document.

**Exposure guidelines****US - California OELs: Skin designation**

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

Cyclohexanone (CAS 108-94-1)

Skin designation applies.

**US - Tennessee OELs: Skin designation**

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

Furan, Tetrahydro- (CAS 109-99-9)

Can be absorbed through the skin.

**US. NIOSH: Pocket Guide to Chemical Hazards**

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

**Appropriate engineering controls**

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Face shield is recommended. Wear safety glasses with side shields (or goggles).



<b>Skin protection</b>	
<b>Hand protection</b>	Wear appropriate chemical resistant gloves.
<b>Other</b>	Wear appropriate chemical resistant clothing.
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	Liquid.
<b>Form</b>	Translucent liquid.
<b>Color</b>	Purple
<b>Odor</b>	Solvent.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	151 °F (66.11 °C)
<b>Flash point</b>	14.0 - 23.0 °F (-10.0 - -5.0 °C)
<b>Evaporation rate</b>	5.5 - 8
<b>Flammability (solid, gas)</b>	Not available.

### Upper/lower flammability or explosive limits

<b>Flammability limit - lower (%)</b>	1.8
<b>Flammability limit - upper (%)</b>	11.8
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	145 mm Hg @ 20 C
<b>Vapor density</b>	2.5
<b>Relative density</b>	0.84 +/- 0.02 @20°C
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Negligible
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Bulk density</b>	7 lb/gal
<b>VOC (Weight %)</b>	505 g/l SQACMD Method 24

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Acids. Strong oxidizing agents. Ammonia. Amines. Isocyanates. Caustics.



**Hazardous decomposition products**

No hazardous decomposition products are known.

**11. Toxicological information****Information on likely routes of exposure**

<b>Inhalation</b>	May be fatal if swallowed and enters airways. Headache. Nausea, vomiting. May cause irritation to the respiratory system. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Prolonged inhalation may be harmful.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	May be fatal if swallowed and enters airways. Harmful if swallowed. Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

**Symptoms related to the physical, chemical and toxicological characteristics**

Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**Information on toxicological effects**

**Acute toxicity** May be fatal if swallowed and enters airways. Narcotic effects. May cause respiratory irritation.

Components	Species	Test Results
Acetone (CAS 67-64-1)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	20 ml/kg
<i>Inhalation</i>		
LC50	Rat	50 mg/l, 8 Hours
<i>Oral</i>		
LD50	Rat	5800 mg/kg
Cyclohexanone (CAS 108-94-1)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	948 mg/kg
<i>Inhalation</i>		
LC50	Rat	8000 ppm, 4 hours
<i>Oral</i>		
LD50	Rat	1540 mg/kg

\* Estimates for product may be based on additional component data not shown.

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.

**Respiratory or skin sensitization**

<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.

<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
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<b>Carcinogenicity</b>	In 2012 USEPA Integrated Risk Information System (IRIS) reviewed a two species inhalation lifetime study on THF conducted by NTP (1998). Male rats developed renal tumors and female mice developed liver tumors while neither the female rats nor the male mice showed similar results. Because the carcinogenic mechanisms could not be identified clearly in either species for either tumor, the EPA determined that the male rat and female mouse findings are relevant to the assessment of carcinogenic potential in humans. Therefore, the IRIS review concludes that these data in aggregate indicate that there is "suggestive evidence of carcinogenic potential" following exposure to THF by all routes of exposure.
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**IARC Monographs. Overall Evaluation of Carcinogenicity**

Cyclohexanone (CAS 108-94-1)	3 Not classifiable as to carcinogenicity to humans.
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**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity - single exposure</b>	Narcotic effects. May cause drowsiness and dizziness. Respiratory tract irritation.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.
<b>Chronic effects</b>	Prolonged inhalation may be harmful.

**12. Ecological information**

<b>Ecotoxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
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Components	Species	Test Results
Acetone (CAS 67-64-1)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours
Cyclohexanone (CAS 108-94-1)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow (Pimephales promelas) 481 - 578 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

<b>Persistence and degradability</b>	No data is available on the degradability of this product.
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<b>Bioaccumulative potential</b>	No data available.
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**Partition coefficient n-octanol / water (log Kow)**

Acetone (CAS 67-64-1)	-0.24
Cyclohexanone (CAS 108-94-1)	0.81
Furan, Tetrahydro- (CAS 109-99-9)	0.46
Methyl ethyl ketone (CAS 78-93-3)	0.29

<b>Mobility in soil</b>	No data available.
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<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.
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**13. Disposal considerations**

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**14. Transport information****DOT**

<b>UN number</b>	UN1993
<b>UN proper shipping name</b>	Flammable liquids, n.o.s. (Methyl ethyl ketone RQ = 26274 LBS, Acetone RQ = 13130 LBS)
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	3
<b>Packing group</b>	II



<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Special provisions</b>	IB2, T7, TP1, TP8, TP28
<b>Packaging exceptions</b>	150
<b>Packaging non bulk</b>	202
<b>Packaging bulk</b>	242

#### IATA

<b>UN number</b>	UN1993
<b>UN proper shipping name</b>	Flammable liquid, n.o.s. (Methyl ethyl ketone, Acetone)
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Packing group</b>	II
<b>Environmental hazards</b>	No.
<b>ERG Code</b>	3H
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

#### IMDG

<b>UN number</b>	UN1993
<b>UN proper shipping name</b>	FLAMMABLE LIQUID, N.O.S. (Methyl ethyl ketone, Acetone)
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Packing group</b>	II
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No.
<b>EmS</b>	F-E, S-E
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

### 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1)	LISTED
Cyclohexanone (CAS 108-94-1)	LISTED
Furan, Tetrahydro- (CAS 109-99-9)	LISTED
Methyl ethyl ketone (CAS 78-93-3)	LISTED

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

<b>Hazard categories</b>	Immediate Hazard - Yes
	Delayed Hazard - No
	Fire Hazard - Yes
	Pressure Hazard - No
	Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** No

#### SARA 313 (TRI reporting)

Not regulated.



## Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

### Safe Drinking Water Act (SDWA)

Not regulated.

### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1)	6532
Methyl ethyl ketone (CAS 78-93-3)	6714

### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1)	35 %WV
Methyl ethyl ketone (CAS 78-93-3)	35 %WV

### DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1)	6532
Methyl ethyl ketone (CAS 78-93-3)	6714

## US state regulations

### US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)  
Cyclohexanone (CAS 108-94-1)  
Furan, Tetrahydro- (CAS 109-99-9)  
Methyl ethyl ketone (CAS 78-93-3)

### US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1)  
Cyclohexanone (CAS 108-94-1)  
Furan, Tetrahydro- (CAS 109-99-9)  
Methyl ethyl ketone (CAS 78-93-3)

### US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1)  
Cyclohexanone (CAS 108-94-1)  
Furan, Tetrahydro- (CAS 109-99-9)  
Methyl ethyl ketone (CAS 78-93-3)

### US. Rhode Island RTK

Acetone (CAS 67-64-1)  
Cyclohexanone (CAS 108-94-1)  
Furan, Tetrahydro- (CAS 109-99-9)  
Methyl ethyl ketone (CAS 78-93-3)

### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date	27-May-2015
Revision date	-
Version #	01
HMIS® ratings	Health: 2 Flammability: 3 Physical hazard: 0



**NFPA ratings****Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available. Oatey Co. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.



Revision Number: 002.1

Issue date: 10/16/2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** OSI Asphalt Tape  
**Product type:** Flashing tape  
**Restriction of Use:** None identified  
**Company address:**  
 Henkel Corporation  
 One Henkel Way  
 Rocky Hill, Connecticut 06067

**IDH number:** 1866180  
**Region:** United States  
**Contact information:**  
 Telephone: +1 (860) 571-5100  
 MEDICAL EMERGENCY Phone: Poison Control Center  
 1-877-671-4608 (toll free) or 1-303-592-1711  
 TRANSPORT EMERGENCY Phone: CHEMTREC  
 1-800-424-9300 (toll free) or 1-703-527-3887  
 Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**WARNING:** CAUSES SKIN IRRITATION.  
 CAUSES SERIOUS EYE IRRITATION.  
 MAY CAUSE RESPIRATORY IRRITATION.  
 MAY CAUSE DROWSINESS OR DIZZINESS.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

### PICTOGRAM(S)



### Precautionary Statements

**Prevention:** Avoid breathing dust or fumes. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear eye and face protection. Wear protective gloves.

**Response:** IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Call a poison control center or physician if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing.

**Storage:** Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal:** Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Asphalt	8052-42-4	60 - 100
Extracts, petroleum, light paraffinic distillate solvent	64742-05-8	10 - 30

\* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Not hazardous by inhalation. If symptoms are experienced, remove source of contamination or move victim to fresh air.
<b>Skin contact:</b>	Wash with soap and water. If symptoms develop and persist, get medical attention.
<b>Eye contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. If symptoms develop and persist, get medical attention.
<b>Ingestion:</b>	not relevant.
<b>Symptoms:</b>	See Section 11.
<b>Notes to physician:</b>	This product contains asphalt and process oil. Treat symptomatically and supportively.

#### 5. FIRE FIGHTING MEASURES

<b>Extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Special fire fighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
<b>Unusual fire or explosion hazards:</b>	May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses.
<b>Hazardous combustion products:</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

#### 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

<b>Environmental precautions:</b>	Do not allow product to enter sewer or waterways.
<b>Clean-up methods:</b>	Dispose of according to Federal, State and local governmental regulations.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid prolonged or repeated skin contact with this material. Avoid eye contact.
<b>Storage:</b>	Store in a cool, dry, well-ventilated area.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Asphalt	0.5 mg/m <sup>3</sup> TWA (as benzene solubles) Inhalable fraction.	None	None	None
Extracts, petroleum, light paraffinic distillate solvent	None	5 mg/m <sup>3</sup> PEL Mist.	None	None

<b>Engineering controls:</b>	General room ventilation is usually adequate.
<b>Respiratory protection:</b>	No personal respiratory protective equipment normally required.
<b>Eye/face protection:</b>	None required in normal use.
<b>Skin protection:</b>	Neoprene or oil resistant gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Solid
<b>Color:</b>	Black
<b>Odor:</b>	tar-like
<b>Odor threshold:</b>	Not available.
<b>pH:</b>	Not available.
<b>Vapor pressure:</b>	Not available.
<b>Boiling point/range:</b>	Not available.
<b>Melting point/range:</b>	85.0 - 132.2 °C (185°F - 270°F)
<b>Specific gravity:</b>	1.0 - 1.1
<b>Vapor density:</b>	Not available.
<b>Flash point:</b>	> 232.2 °C (> 449.96 °F) Certificate of Supplier; Product is a solid.
<b>Flammable/Explosive limits - lower:</b>	Not available.
<b>Flammable/Explosive limits - upper:</b>	Not available.
<b>Autoignition temperature:</b>	Not available.
<b>Evaporation rate:</b>	Not available.
<b>Solubility in water:</b>	Negligible
<b>Partition coefficient (n-octanol/water):</b>	Not available.
<b>VOC content:</b>	Negligible
<b>Viscosity:</b>	Not available.
<b>Decomposition temperature:</b>	Not available.

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of storage and use.
<b>Hazardous reactions:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>Incompatible materials:</b>	Strong oxidizing agents. Strong bases.
<b>Reactivity:</b>	Not available.
<b>Conditions to avoid:</b>	Avoid excessive heat and ignition sources.

## 11. TOXICOLOGICAL INFORMATION

<b>Relevant routes of exposure:</b>	Eyes, Skin
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### Potential Health Effects/Symptoms

**Inhalation:** Not a hazard under normal conditions of use. May irritate the nose and respiratory system.  
**Skin contact:** Repeated contact may cause skin irritation  
**Eye contact:** May cause slight irritation to eyes on contact.  
**Ingestion:** Not a likely route of entry. No significant adverse effects are expected upon ingestion of the product.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Asphalt	None	Central nervous system, Irritant, Respiratory
Extracts, petroleum, light paraffinic distillate solvent	None	Irritant, Some evidence of carcinogenicity

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Asphalt	No	Group 2B	No
Extracts, petroleum, light paraffinic distillate solvent	No	No	No

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available.

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Dispose of according to Federal, State and local governmental regulations.

**Hazardous waste number:** It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

### U.S. Department of Transportation Ground (49 CFR)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

### Water Transportation (IMO/IMDG)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

## 15. REGULATORY INFORMATION

### United States Regulatory Information

<b>TSCA 8 (b) Inventory Status:</b>	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
<b>TSCA 12 (b) Export Notification:</b>	None above reporting de minimis
<b>CERCLA/SARA Section 302 EHS:</b>	None above reporting de minimis
<b>CERCLA/SARA Section 311/312:</b>	Immediate Health, Delayed Health
<b>CERCLA/SARA Section 313:</b>	None above reporting de minimis
<b>California Proposition 65:</b>	This product contains a chemical known in the State of California to cause cancer.

### Canada Regulatory Information

<b>CEPA DSL/NDL Status:</b>	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
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## 16. OTHER INFORMATION

**This safety data sheet contains changes from the previous version in sections:** New Material Safety Data Sheet format.

**Prepared by:** Mary Ellen Roddy, Sr. Regulatory Affairs Specialist

**Issue date:** 10/16/2014

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This Article Information Sheet is provided as a courtesy in response to a customer request. A Safety Data Sheet (SDS) has not been prepared for these product(s) because they are articles. Articles are not subject to the Occupational Safety and Health Administration's Hazard Communication Standard (29 CFR 1910.1200(b)(6)(v)). As defined in this standard: "Article" means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical, and does not pose a physical or health risk to employees.

**Document Group:** 09-1538-9  
**Issue Date:** 09/25/14

**Version Number:** 1.00  
**Supersedes Date:** Initial Issue

### SECTION 1: Identification

#### 1.1. Product identifier

Scotch® Linerless Rubber Splicing Tape 130C

#### Product Identification Numbers

44-0025-7298-8, 78-8055-8713-2, 78-8114-3501-1, 78-8126-9244-6, 78-8135-4843-1, 80-0000-0227-1, 80-0000-0277-6, 80-0000-0764-3, 80-0140-0098-0, 80-1006-1159-1, 80-1006-1281-3, 80-6105-9732-2, 80-6105-9733-0, 80-6108-3340-4, 80-6108-3341-2, 80-6108-3373-5, 80-6108-3374-3, 80-6108-3375-0, 80-6108-3376-8, 80-6108-3967-4, 80-6108-9479-4, 80-6108-9736-7, 80-6109-8146-8, 80-6112-0252-6, 80-6112-0253-4, 80-6112-6528-3, 80-6114-1928-6, 80-6114-3885-6

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Electrical

#### 1.3. Supplier's details

**MANUFACTURER:** 3M  
**DIVISION:** Electrical Markets Division  
International Operations  
**ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA  
**Telephone:** 1-888-3M HELPS (1-888-364-3577)

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

This product is exempt from hazard classification according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### SECTION 3: Composition/information on ingredients

<b>Ingredient</b>	<b>C.A.S. No.</b>	<b>% by Wt</b>
Backing	Mixture	60 - 90
ALUMINA TRIHYDRATE	21645-51-2	30 - 70
Adhesive	Mixture	15 - 35
ETHYLENE-PROPYLENE-ETHYLIDENENORBORNENE TERPOLYMER	25038-36-2	5 - 20
POLYPROPYLENE	9003-07-0	5 - 20
SOLVENT REFINED RESIDUAL OIL (PETROLEUM)	64742-01-4	1 - 10
PIPERYLENE-2-METHYL-2-BUTENE POLYMER	26813-14-9	1 - 7
POLYBUTYLENE	9003-29-6	1 - 6

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:**

No need for first aid is anticipated.

**Skin Contact:**

No need for first aid is anticipated.

**Eye Contact:**

No need for first aid is anticipated.

**If Swallowed:**

No need for first aid is anticipated.

## SECTION 5: Fire-fighting measures

In case of fire: Use a carbon dioxide or dry chemical extinguisher to extinguish.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Not applicable.

### 6.2. Environmental precautions

Not applicable.

### 6.3. Methods and material for containment and cleaning up

Not applicable.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

### 7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.



## SECTION 8: Exposure controls/personal protection

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions. No engineering controls or personal protective equipment (PPE) are necessary.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>General Physical Form:</b>	Solid
<b>Specific Physical Form:</b>	Roll of Tape
<b>Odor, Color, Grade:</b>	Black, pungent odor
<b>Odor threshold</b>	<i>Not Applicable</i>
<b>pH</b>	<i>Not Applicable</i>
<b>Melting point</b>	<i>No Data Available</i>
<b>Boiling Point</b>	<i>Not Applicable</i>
<b>Flash Point</b>	<i>Not Applicable</i>
<b>Evaporation rate</b>	<i>Not Applicable</i>
<b>Flammability (solid, gas)</b>	Not Classified
<b>Flammable Limits(LEL)</b>	<i>No Data Available</i>
<b>Flammable Limits(UEL)</b>	<i>No Data Available</i>
<b>Vapor Pressure</b>	<i>Not Applicable</i>
<b>Vapor Density</b>	<i>Not Applicable</i>
<b>Density</b>	<i>No Data Available</i>
<b>Specific Gravity</b>	<i>No Data Available</i>
<b>Solubility in Water</b>	Negligible
<b>Solubility- non-water</b>	<i>Not Applicable</i>
<b>Partition coefficient: n-octanol/ water</b>	<i>No Data Available</i>
<b>Autoignition temperature</b>	<i>No Data Available</i>
<b>Decomposition temperature</b>	<i>Not Applicable</i>
<b>Viscosity</b>	<i>Not Applicable</i>
<b>Average particle size</b>	<i>No Data Available</i>
<b>Bulk density</b>	<i>No Data Available</i>
<b>Hazardous Air Pollutants</b>	<i>No Data Available</i>
<b>Molecular weight</b>	<i>No Data Available</i>
<b>Volatile Organic Compounds</b>	<i>Not Applicable</i>
<b>Percent volatile</b>	<i>Not Applicable</i>
<b>Softening point</b>	<i>No Data Available</i>
<b>VOC Less H2O &amp; Exempt Solvents</b>	<i>Not Applicable</i>

## SECTION 10: Stability and reactivity

This material is considered to be non reactive under normal use conditions.

## SECTION 11: Toxicological information

### Inhalation:

No health effects are expected

### Skin Contact:

No health effects are expected

### Eye Contact:

No health effects are expected

**Ingestion:**

No health effects are expected

**Additional Information:**

This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

**SECTION 12: Ecological information**

This article is expected to present a low environmental risk either because use and disposal are unlikely to result in a significant release of components to the environment or because those components that may be released are expected to have insignificant environmental impact.

**SECTION 13: Disposal considerations**

Dispose of contents/container in accordance with the local/regional/national/international regulations.

**SECTION 14: Transport Information**

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

**SECTION 15: Regulatory information****Chemical Inventories**

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory requirements.

**SECTION 16: Other information****NFPA Hazard Classification**

**Health:** 0 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

**HMIS Hazard Classification**

**Health:** 0 **Flammability:** 0 **Physical Hazard:** 0 **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® III) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® III ratings are to be used with a fully implemented HMIS® III program. HMIS® is a registered mark of the American Coatings Association (ACA).

**Document Group:** 09-1538-9  
**Issue Date:** 09/25/14

**Version Number:** 1.00  
**Supersedes Date:** Initial Issue

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## SAFETY DATA SHEET

*This Safety Data Sheet complies with the Canadian Controlled Product Regulations and with the requirements of 29 CFR § 1910.1200*

### 1. Product and Supplier Identification

**Products:** Surface Bonder XI, RPT-01, Trim Bonder TR30/TR40  
Rodding Compound RD50, Sink Bonder SK11

**Product Use:** Bonding agent for acrylic composite, polyester composite, quartz composite, natural stone, FRP/GRP and steel reinforcing rods

**Manufacturer:** Integra Adhesives Inc.,  
Unit 4, 33759 Morey Avenue  
Abbotsford, BC, Canada, V2S 2W5  
Telephone: +1(604) 850-1321  
Facsimile: +1(604) 850-1354  
Emergency Telephone Number: +1(604) 986-4617

**Supplier:** As above

### 2. Composition

#### Part A

Component	% (w/w)	LD <sub>50</sub>	LC <sub>50</sub>	Exposure Limits
Methyl Methacrylate Monomer CAS No 80-62-6	35 - 50	7940 mg/kg (rat/oral)	7093ppm (rat/ 4hr)	ACGIH <sup>1</sup> TLV-TWA: 50 ppm Carcinogen A4, Sensitizer ACGIH STEL: 100 ppm
Inert Ingredients or those below disclosure requirements	50 - 65	N. App	N. App	N Applicable

#### Part B

Component	% (w/w)	LD <sub>50</sub>	LC <sub>50</sub>	Exposure Limits
Benzoyl Peroxide <sup>2</sup> (Active O <sub>2</sub> < 1.0%) CAS No 94-36-0	2 - 5	7710 mg/kg (rat/oral)	N/av	ACGIH <sup>1</sup> TLV: 5 mg/m <sup>3</sup>
Tricresyl Phosphate CAS No 1330-78-5	2 - 5	5190 mg/kg (rat/oral)	N/av	ACGIH <sup>1</sup> TLV: 0.1 mg/m <sup>3</sup>
Reaction product of Epichlorohydrin and Bisphenol A CAS No 25085-99-8	70-80	11400 mg/kg (rat/oral)	N/av	N/p Skin and respiratory sensitizer
Inert Ingredients or those below disclosure requirements	5 - 10	N/ap	N/ap	N/ap



## Adhesive Kits

**ABBREVIATION KEY:** N/p: not published, N/d: not determined, N/ap: not applicable, N/av: not available

**Note:** Exposure limits may vary from time to time and from one jurisdiction to another. Check with local regulatory agency for the exposure limits in your area.

- <sup>1</sup> ACGIH: American Conference of Environmental Industrial Hygienists  
<sup>2</sup> Part B does not meet the requirements for inclusion in Class 5.2 under Part 2.5.3.2.1 of the thirteenth revise edition of the Recommendations on the Transport of Dangerous Goods, Model Regulations.

### 3. Hazards Identification

#### Routes of Entry:

Skin Contact: Yes (Part A)  
Ingestion: Yes (Part A)

Eye Contact: Yes (Part B)  
Inhalation: Yes (Part A)

**Emergency Overview:** Methyl methacrylate is extremely volatile and can form high concentration of vapours at room temperature. Being heavier than air, it may spread long distances and sources of ignition may cause flashbacks to source. Liquid may float on water spreading fire. This product is a confined space hazard. Closed container may rupture when exposed to heat or to sunlight. High vapour concentrations may cause headache, nausea, dizziness, drowsiness, confusion and incoordination. Very high concentrations may cause loss of consciousness and death. **Skin sensitizer!** May cause severe allergic skin reactions.

#### Acute Health Effects:

**Inhalation:** This product contains materials that are extremely volatile. Low concentrations probably irritating to the nose, throat and respiratory tract. Higher concentrations can probably cause symptoms of central nervous system depression, such as headache, nausea dizziness, drowsiness, and confusion. Extremely high concentrations can cause loss of consciousness and death. Dues to its irritating nature, methyl methacrylate may cause fluid build up in lungs. Symptoms are shortness of breath, pain in chest and difficulty breathing. Symptoms may be delayed up to 24 hours.

**Skin Contact:** This product is mildly irritating to the skin, but exposure is considered major due to its ability to sensitize the skin.

**Eye Contact:** Ingredients in Part B may cause severe eye irritation.

**Ingestion:** Ingestion may cause effects similar to those experienced under the heading "INHALATION"

#### Chronic Health Effects:

In most exposure situation, prolonged exposure may cause central nervous system depression. In addition, prolonged inhalation exposure may cause bronchitis which includes coughing. This product is a skin sensitizer (methyl methacrylate) and may be a respiratory sensitizer based on limited studies (reaction product of epichlorohydrin and bisphenol A). One sensitized to this material, even a small additional exposure will produce severe allergic reactions such as rash, itching, and swelling. This material cannot be classified by IARC as a carcinogen to humans.

#### Medical Conditions Aggravated by Exposure:

Pre-existing eye, skin, respiratory tract disorders may be aggravated by exposure.

### 4. First Aid Measures

**Inhalation:** This product is flammable. Take proper precautions. Remove victim to fresh air. Give artificial respiration if indicated. Get medical attention.

**Skin Contact:** Avoid direct contact. Wear chemical protective clothing, if necessary. Quickly and gently blot or brush away excess chemical. Wash gently and thoroughly with water and non-abrasive soap for 20 minutes or until chemical is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Completely decontaminate clothing, shoes and leather goods before

## Adhesive Kits

re-use or discard. If the contact is severe and pain persists after long term rinsing with water, rinse the contaminated area with lukewarm pasteurized milk. After pain has stopped, rinse thoroughly with water. Obtain medical attention immediately.

**Eye Contact:** MAY CAUSE EYE IRRITATION. Check and remove any contact lenses. Flush with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. DO NOT INTERRUPT FLUSHING. Take care not to contaminate non-affected eye. Seek medical attention.

**Ingestion:** If patient is conscious, give three or four glasses of water. ***Do not induce vomiting*** Do not give anything by mouth to a convulsing or unconscious person. Get medical attention.

**General Comments:** Good personal hygiene is essential. Avoid eating, smoking or drinking in work areas.

## 5. Fire Fighting Measures

### Part A

<b>Flash point:</b>	9°C TCC (Methyl Methacrylate)
<b>Autoignition Temperature:</b>	435°C. See information under "Fire Fighting Instructions"
<b>Lower Explosive Limit:</b>	2.1 % by volume
<b>Upper Explosion Limit:</b>	12.5% by volume
<b>Sensitivity to Impact:</b>	No
<b>Sensitivity to Static Discharge:</b>	No

### Part B

<b>Flash point:</b>	Not applicable
<b>Autoignition Temperature:</b>	Not applicable
<b>Lower Explosive Limit:</b>	Not applicable
<b>Upper Explosion Limit:</b>	Not applicable
<b>Sensitivity to Impact:</b>	No
<b>Sensitivity to Static Discharge:</b>	No

**Hazardous Combustion Products:** Burning may produce oxides of carbon.

**Extinguishing Media:** Use carbon dioxide, alcohol foam, or dry chemical. Water should be used to cool surrounding containers.

**Fire Fighting Instructions:** Vapour will flash and the liquid will burn. Keep away from all sources of ignition and avoid elevated temperatures. Vapours are heavier than air, and may collect in low-lying areas. Firefighters must wear self-contained breathing apparatus and full protective clothing.

## 6. Accidental Release Measures

**Personal Protection:** Wear adequate personal protection to prevent skin contact. See Section 8 for specific recommendations.

**Environmental Precautions:** Prevent release into waterways and sewers. Stop spill as soon as possible to prevent contamination of soil, groundwater, or surface water.

**Cleanup Procedures:** Toxic, flammable liquid, insoluble or very slightly soluble in water. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand, or other non-combustible material. Prevent entry into sewers, basements, or confined areas. Dike if needed. Eliminate all sources of ignition. Call for assistance on disposal. Consult national, provincial, and local regulations.

## 7. Handling and Storage



## Adhesive Kits

**Handling Procedures:** Keep away from heat and all sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas, fumes, vapor, or spray. Follow safe work procedures and wear appropriate personal protective equipment.

**Storage:** Keep well away from all sources of ignition. Store in a cool well-ventilated area out of direct sunlight and away from heat and ignitions sources. Do not store near foodstuffs. Methyl Methacrylate should not be stored for longer than 3 months. Containers should be checked weekly after 30 days to determine inhibitor concentration and possible polymerization. Store away from oxidizers and corrosives and other incompatible materials such as sulfuric acid, peroxides, alkali metal, which increase the risk of fire and explosion.

## 8. Exposure Controls, Personal Protection

**Occupational Controls:** ACGIH TLV-TWA: 50 ppm, Sensitizer (methyl methacrylate)

**Engineering Controls:** If used indoors, ensure adequate non-sparking ventilation. Remove all sources of ignition and post "No Smoking" signs in the work place. Keep away from heat, and never weld, cut, or solder empty containers. Use adequate ventilation to reduce concentration to below TLV.

**Respiratory Protection:** NIOSH RECOMMENDATIONS FOR METHYL METHACRYLATE CONCENTRATIONS IN AIR:

UP TO 1000 ppm: SAR operated in a continuous-flow mode\*; or full-facepiece chemical cartridge respirator with organic vapour cartridge(s); or gas mask with organic vapour canister; or powered air-purifying respirator with organic vapour cartridge(s)\*; or full-facepiece SCBA; or full-facepiece SAR.

EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATIONS OR IDLH CONDITIONS:  
Positive pressure, full-facepiece SCBA; or positive pressure, full-facepiece SAR with an auxiliary positive pressure SCBA.

ESCAPE: Gas mask with organic vapour canister; or escape-type SCBA.

\*NOTE: Substance causes eye irritation or damage; eye protection needed.

**Skin Protection:** Guidelines for methyl methacrylate:

*RECOMMENDED* (resistance to breakthrough longer than 8 hours): Tychem(TM) F, Tychem(TM) BR/LV, Tychem(TM) Responder(TM), Tychem(TM) TK.

*CAUTION*, use for short periods only (resistance to breakthrough within 1 to 4 hours): Butyl rubber, Polyvinyl alcohol, Viton(TM)/Butyl rubber.

*NOT RECOMMENDED* for use (resistance to breakthrough less than 1 hour): Natural rubber, neoprene rubber, nitrile rubber, polyvinyl chloride, Viton(TM).

Recommendations are *NOT* valid for very thin Natural rubber, Neoprene, Nitrile and PVC gloves (0.3 mm or less).

Resistance of materials can vary from product to product. Breakthrough times are obtained under conditions of continuous contact, generally at room temperature. Evaluate resistance under conditions of use and maintain clothing carefully.

**Eye and Face Protection:** Use chemical safety goggles.

**Footwear:** As recommended by worksite.

**Other:** Eyewash and showers should be located near work areas.

## 9. Physical and Chemical Properties

## Adhesive Kits

### Part A

<b>Appearance:</b>	Clear transparent liquid, may be tinted	<b>Melting Point:</b>	Not applicable.
<b>Odour:</b>	Typical Resin	<b>Boiling Point:</b>	≈101 °C
<b>pH:</b>	Not applicable.	<b>Freezing Point:</b>	Not available.
<b>Vapour Pressure:</b>	29 mm Hg	<b>Relative Density:</b>	1.06 (water = 1)
<b>Solubility:</b>	Slightly soluble in cold water	<b>Partition Coefficient:</b>	No data
<b>Vapour Density:</b>	Heavier than air	<b>Evaporation Rate:</b>	Not available.

### Part B

<b>Appearance:</b>	Paste	<b>Boiling Point:</b>	Not established
<b>Odour:</b>	Faint odour	<b>Freezing Point:</b>	0°C
<b>pH:</b>	Not applicable.	<b>Relative Density:</b>	1.11 (water = 1)
<b>Vapour Pressure:</b>	Not applicable	<b>Partition Coefficient:</b>	No data
<b>Solubility:</b>	Slight solubility	<b>Evaporation Rate:</b>	Not applicable
<b>Vapour Density:</b>	Not applicable		
<b>Melting Point:</b>	Not applicable.		

## 10. Stability and Reactivity

**Chemical Stability:** This product is stable.

**Hazardous Polymerization:** May polymerize violently with risk of fire and explosion. Uninhibited methyl methacrylate with low inhibitor concentration, polymerizes slowly at room temperature and on exposure to light and air, and readily at elevated temperatures, greater than 65°C (149°F). Polymerization becomes self-sustaining above 95 deg C. Metal salts (e.g. ferric or aluminum chloride), peroxides, oxidizers and strong acids may also cause polymerization.

**Incompatibility:** Oxygen, oxidizing agents - Increased risk of fire and explosion. Can form explosive peroxides. Strong acids (e.g. sulfuric acid, oleum, chlorosulfonic acid) – Increased temperature and pressure; increased risk of fire and explosion. Alkali metal, graphite compounds, metallic halide salts, peroxides (dibenzoyl peroxide di-terbutyl peroxide), azoisobutyronitrile – Can initiate polymerization. Byllithium - Explosion can occur. Halogens - Can react with low concentrations of halogens, in the presence of UV light, to form a strong irritant. Can form peroxides in the presence of light and air or on contact with acids. Methyl Methacrylate has been involved in several plant-scale explosions when stored inappropriately or accidentally heated.

Part B is an organic peroxide listed as an incompatible substance to Part A. Mixing Part A and B must be done under controlled condiditons as prescribed in the product directions. Use of the resin dispensers provided with the resin kits are adequate for measuing correct amounts of each.

**Hazardous Decomposition Products:** Various oxides of carbon and unidentified compounds in smoke.

## 11. Toxicological Information

<b>Acute Exposure (LD<sub>50</sub>):</b>	See Section 2
<b>Acute Exposure (LC<sub>50</sub>):</b>	See Section 2
<b>Chronic Exposure:</b>	See Section 3
<b>Exposure Limits:</b>	See Section 2
<b>Irritancy:</b>	See Section 3
<b>Sensitization:</b>	Part A (methyl methacrylate) is a skin sensitizer. See Section 3. Part B (reaction product of epichlorohydrin and bisphenol A) may be a respiratory sensitizer based on limited studies.
<b>Neurotoxicity:</b>	None observed other than central nervous system depression
<b>Carcinogenicity:</b>	No ingredients listed by IARC



## Adhesive Kits

<b>Teratogenicity:</b>	Not reported
<b>Reproductive Toxicity:</b>	No evidence reported
<b>Mutagenicity:</b>	No evidence reported
<b>Synergistic Products:</b>	Methyl methacrylate metabolism is slowed down by the presence of other organic solvents, including ethyl alcohol.

## 12. Ecological Information

### Environmental Toxicity:

#### *Methyl methacrylate:*

TLm Pimephales promelas (fathead minnow) 499-159 mg/l/24-96 hr /Conditions of bioassay not specified  
TLm Lepomis macrochirus (bluegill) 368-232 mg/l/24-96 hr /Conditions of bioassay not specified  
TLm Carassius auratus (goldfish) 423-277 mg/l/24-96 hr /Conditions of bioassay not specified  
TLm Lebistes reticulatus (guppies) 368 mg/l/24-96 hr /Conditions of bioassay not specified  
Toxicity threshold (cell multiplication inhibition test): Pseudomonas putida (bacteria): 100 mg/l

#### *Benzoyl peroxide:*

No data available.

#### *Tricresyl Phosphate:*

LC<sub>50</sub> Rainbow trout (weight 0.2 g) 260 ug/l/96 hr (95% confidence interval 210-322 ug/l), flow-through test at 12 deg C.  
LC<sub>50</sub> Channel catfish (weight 1.3 g) 803 ug/l/96 hr (95% confidence interval 672-959 ug/l), flow-through test at 12 deg C.  
LC<sub>50</sub> Bluegill (weight 0.6 g) 150 ug/l/96 hr (95% confidence interval 102-220 ug/l), flow-through test at 12 deg C.  
LC<sub>50</sub> Yellow perch (weight 0.7 g) 502 ug/l/96 hr (95% confidence interval 384-656 ug/l), flow-through test at 12 deg C.

### Environmental Fate:

#### *Methyl methacrylate:*

TERRESTRIAL FATE: Based on a classification scheme, a Koc value of 95 indicates that methyl methacrylate is expected to have high mobility in soil. Volatilization of methyl methacrylate from moist soil surfaces is expected to be an important fate process given an estimated Henry's Law constant of  $3.2 \times 10^{-4}$  atm-cu m/mole, from its vapor pressure of 38.5 mm Hg and water solubility of  $1.6 \times 10^{-4}$ . The potential for volatilization of methyl methacrylate from dry soil surfaces may exist based upon its vapor pressure. Screening tests indicate that methyl methacrylate is readily biodegradable; it reached 94% of its theoretical BOD in 2 weeks using an activated sludge inoculum.

AQUATIC FATE: Based on a classification scheme(1), a Koc value of 95 indicates that methyl methacrylate is not expected to adsorb to suspended solids and sediment in water. Volatilization from water surfaces is expected based upon an estimated Henry's Law constant of  $3.2 \times 10^{-4}$  atm-cu m/mole, from its vapor pressure of 38.5 mm Hg and water solubility of  $1.6 \times 10^{-4}$ . Volatilization half-lives for a model river and model lake are 6 hours and 5 days, respectively, using an estimation method. Hydrolysis of methyl methacrylate may be a significant process under basic conditions based upon a hydrolytic half-life of 3.4 hours at pH 11; half-lives of 4 years, 140 days, and 14 days were determined at pH 7, 8, and 9, respectively. According to a classification scheme, an estimated BCF of 7, from a

## Adhesive Kits

log Kow of 1.38, suggests the potential for bioconcentration in aquatic organisms is low. Screening tests indicate that methyl methacrylate is readily biodegradable; it reached 94% of its theoretical BOD in 2 weeks using an activated sludge inoculum.

**ATMOSPHERIC FATE:** According to a model of gas/particle partitioning of semivolatile organic compounds in the atmosphere, methyl methacrylate, which has a vapor pressure of 38.5 mm Hg at 25 deg C, is expected to exist solely as a vapor in the ambient atmosphere. Vapor-phase methyl methacrylate is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 7.4 hours from its rate constant of  $5.2 \times 10^{-11}$  cu cm/molecule-sec at 25 deg C. The rate constant for the reaction of methyl methacrylate with ozone is  $1.1 \times 10^{-17}$  cu cm/mole-sec, corresponding to a half-life of 1 day at an atmospheric concentration of  $7 \times 10^{+11}$  molecules/cu cm. Because methyl methacrylate does not absorb light in the environmental spectrum above 290 nm, direct photolysis is not expected to occur.

### *Benzoyl Peroxide:*

**TERRESTRIAL FATE:** Based on a recommended classification scheme, an estimated Koc value of 1,800, determined from an experimental log Kow of 3.46 and a recommended regression-derived equation, indicates that benzoyl peroxide is expected to have low mobility in soil. Volatilization of benzoyl peroxide from moist soil surfaces may be important given an estimated Henry's Law constant of  $3.5 \times 10^{-6}$  atm-cu m/mole, using a fragment constant estimation method. Benzoyl peroxide is not expected to volatilize from dry soil surfaces based on an estimated vapor pressure of  $7.1 \times 10^{-5}$  mm Hg, determined from a fragment constant method. In the Japanese MITI test, benzoyl peroxide (present at 100 ppm) reached 84 percent of its theoretical BOD in 21 days, using an activated sludge inoculum.

**AQUATIC FATE:** Based on a recommended classification scheme, an estimated Koc value of 1,800, determined from an experimental log Kow of 3.46 and a recommended regression-derived equation, indicates that benzoyl peroxide is expected to adsorb to suspended solids and sediment in water. Benzoyl peroxide may volatilize from water surfaces based on an estimated Henry's Law constant of  $3.5 \times 10^{-6}$  atm-cu m/mole, developed using a fragment constant estimation method. Estimated volatilization half-lives for a model river and model lake are 17 days and 123 days, respectively. According to a classification scheme, an estimated BCF of 250, from an experimental log Kow, suggests that bioconcentration in aquatic organisms is high. In the Japanese MITI test, benzoyl peroxide (present at 100 ppm) reached 84 percent of its theoretical BOD in 21 days, using an activated sludge inoculum.

**ATMOSPHERIC FATE:** According to a model of gas/particle partitioning of semivolatile organic compounds in the atmosphere, benzoyl peroxide, which has an estimated vapor pressure of  $7.1 \times 10^{-5}$  mm Hg at 25 deg C, will exist in both the vapor and particulate phases in the ambient atmosphere. Vapor-phase benzoyl peroxide is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be about 4.5 days. Particulate-phase benzoyl peroxide may be physically removed from the air by wet and dry deposition. The maximum absorption of benzoyl peroxide, dissolved in dioxane was 275 nm, with no absorption reported above 320 nm(4), suggesting that benzoyl peroxide may directly photolyze since it has some absorption above 290 nm (sunlight)

**Biodegradability:** The biodegradation rate for methyl methacrylate at 75 ppm starting concentration, treated using a mixed microbial population immobilized in calcium alginate gel, was 9.3 ppm/hr; this corresponded to 89% removal due to biodegradation. In the Japanese MITI test, benzoyl peroxide (present at 100 ppm) reached 84 percent of its theoretical BOD in 21 days, using an activated sludge inoculum.



## Adhesive Kits

**Bioconcentration:** Methyl methacrylate is not expected to bioaccumulate. Bioconcentration of benzoyl peroxide in aquatic organisms is expected to be high.

### 13. Disposal Considerations

Review federal, provincial or state, and local government requirements prior to disposal. Store material for disposal as indicated in Storage Conditions. Disposal by controlled incineration may be acceptable.

### 14. Transport Information

**Transport Canada (TDG):**

Adhesives, Class 3, UN 1133, PG III, (When labeled for retail trade, may be classified as "Consumer Commodity")

**US DOT (CFR49):**

Adhesives, Class 3, UN 1133, PG III, (When labeled for retail trade, may be classified as "Consumer Commodity, ORMD)

**International Air Transport Association (IATA):** Adhesives, Class 3, UN 1133, PG III  
(When labeled for retail trade, may be classified as "Consumer Commodity, Class 9, ID 8000")

**International Maritime: (IMDG):**

Adhesives, Class 3, UN 1133, PG III  
Limited Quantity  
EmS No F-E, S-D, Stowage Category "A"  
Flash Point = 9°C

**Note:** Despite a flash point of 9° CC, this product has been assigned to Packing Group III as per the requirements of TDG, Part 2.19(3) and 49 CFR § 173.121 (b).

### 15. Regulatory Information

**CANADIAN FEDERAL REGULATIONS:**

**CEPA, DOMESTIC SUBSTANCES LIST:** All ingredients are listed

**WHMIS CLASSIFICATION:** Part A: B2, D2B, F  
Part B: C, D2A

**UNITED STATES – FEDERAL REGULATIONS:**

**TOXIC SUBSTANCES CONTROL ACT (TSCA):** All components are listed in the inventory.

**OSHA, 29 CFR 1910, Subpart Z:** Meets the criteria for a hazardous substance.

**CERCLA, 40 CFR 302:** No ingredients listed

**SARA 302, 40 CFR 355:** No ingredients are listed.

**SARA 313, 40 CFR 372:** Subject to reporting requirements: Benzoyl peroxide, Methyl methacrylate

**SARA 311/312, 40 CFR 370:** Immediate (Acute) Health, Delayed (Chronic) Health.

**Proposition 65, California Safe Drinking Water and Toxicity Enforcement Act of 1986:** No ingredients appear on the list of Carcinogens or Reproductive Toxins as published on the effective date of this Safety Data Sheet.

## 16. Other Information

**Original Preparation Date:** September 3, 2010

**Prepared by:** Kel-Ex Agencies Ltd., 319 Lynn Avenue, North Vancouver, B.C. V7J 2C4

**Disclaimer:** This Safety Data Sheet was prepared using information provided by CCINFO. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. Integra Adhesives Inc., expressly disclaims all expressed or implied warranties and assumes no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

*This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of Integra Adhesives Inc.*

**Revisions:** None

## TECHNOMELT DORUS KS 351

Known as DORUS KS 351  
June 2013

### PRODUCT DESCRIPTION

TECHNOMELT DORUS KS 351 provides the following product characteristics:

<b>Technology</b>	EVA
<b>Product Type</b>	Unfilled Hotmelt
<b>Application</b>	Edgebanding
<b>Appearance</b>	Granules Transparent White

### Application Areas

- Edgebanding as from feedrates of 12 m/min throughfeed machines
- Edging material: solid wood, veneer, melamine, polyester, HPL\*, PVC\*, ABS\*, PP\*
- Softforming even with difficult-to-bond profiles
- Suitable for processing centres (BAZ) with direct application

\* Suitability depends on the individual characteristics of the edging material and how it is primed.

### Product Properties

- Medium viscosity
- Universal hotmelt adhesive
- Very good thermal resistance
- Produces tight joints virtually not visible
- Very high heat resistance
- High glue mileage
- Very good wetting
- Permits smooth surfaces even with very flexible edging materials
- High final bond strength

### Technical Data

#### TECHNOMELT DORUS KS 351:

Softening Point, Ring & Ball, °C	~110
Viscosity, Brookfield - 180 °C, mPa.s	~140,000
Viscosity, Brookfield - 200 °C, mPa.s	~75,000
Heat Resistance, °C	~90
Tested with 0.6 mm oak veneer using the Henkel method of increasing temperature	

### DIRECTIONS OF USE

#### Preliminary Statement

Prior to application it is necessary to read the **Material Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

#### Instructions for Use

##### Working Temperature

Recommended working temperature:	
in the melting container, °C	180 to 200
at the application roller, °C	190 to 200

#### Safety

Hotmelt adhesives give off vapours even when the specified working temperature is not exceeded. The smells emitted may often cause irritation. When the specified temperatures are considerably exceeded over a longer period of time, there is the additional danger of decomposition products being given off. Therefore measures to draw off the vapours need to be taken, e.g. through the provision of extraction equipment.

#### STORAGE

Store in the original tightly closed container in a cool, dry place.

#### Shelf life

Shelf-life (in unopened original packaging), years 2

#### Classification:

Please refer to the corresponding **safety data sheets** for details on:

#### Hazardous Information

#### Transport Regulations

#### Safety Regulations



## ADDITIONAL INFORMATION

### Disclaimer

#### Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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# Franklin International

## Safety Data Sheet

### Titebond Original Wood Glue

#### Section 1. Identification

<b>GHS product identifier</b>	: Titebond Original Wood Glue
<b>Physical state</b>	: Liquid.
<b>Address</b>	: Franklin International 2020 Bruck Street Columbus OH 43207
<b>Contact person</b>	: Franklin Technical Services
<b>Telephone</b>	: (800) 877-4583
<b>In case of emergency</b>	: Franklin Security (614) 445-1300
<b>e-mail address of person responsible for this SDS</b>	: SDS@FranklinInternational.com
<b>Reference number</b>	: 2213
<b>Product code</b>	: 5063
<b>Date of revision</b>	: 4/24/2018
<b>Safety Data Sheets are available online at</b>	: www.FranklinInternational.com
<b>Chemtrec (24 Hour)</b>	: (800) 424 - 9300
<b>Chemtrec International</b>	: +1 703-741-5970
<b>Chemical family</b>	: Adhesive.

#### Relevant identified uses of the substance or mixture and uses advised against

##### **Identified uses**

Industrial use wood glue.  
Wide dispersive use of substances in professional and DIY adhesives.

#### Section 2. Hazards identification

<b>OSHA/HCS status</b>	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
<b>Classification of the substance or mixture</b>	: Not classified.
<b>GHS label elements</b>	
<b>Signal word</b>	: No signal word.
<b>Hazard statements</b>	: No known significant effects or critical hazards.
<b>Precautionary statements</b>	
<b>General</b>	: Refer to safety data sheet before use. Avoid contact with skin and clothing. Wash thoroughly after handling. Get medical attention if needed. Contact Franklin International Technical Service for additional information at 1-800-877-4583.
<b>Prevention</b>	: Not applicable.
<b>Response</b>	: Not applicable.

## Section 2. Hazards identification

<b>Storage</b>	: Not applicable.
<b>Disposal</b>	: Not applicable.
<b>Hazards not otherwise classified</b>	: None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

## Section 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
<b>Inhalation</b>	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if needed.
<b>Skin contact</b>	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if needed.
<b>Ingestion</b>	: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if needed.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: This product may irritate eyes upon contact.
<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Skin contact</b>	: No known significant effects or critical hazards.
<b>Ingestion</b>	: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: No specific data.
<b>Inhalation</b>	: No specific data.
<b>Skin contact</b>	: No specific data.
<b>Ingestion</b>	: No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to physician</b>	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: No specific treatment.
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training.

**See toxicological information (Section 11)**



## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## Section 7. Handling and storage

**Conditions for safe storage, including any incompatibilities** : Store between the following temperatures: 4.444 to 32.222°C (40 to 90°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

None.

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### Appearance

**Physical state** : Liquid.

**Color** : Yellow.

**Odor** : Faint odor.

**Odor threshold** : Not available.

**pH** : 3.8 to 4.7

## Section 9. Physical and chemical properties

<b>Melting point</b>	: Not available.
<b>Boiling point</b>	: 98.889°C (210°F)
<b>Flash point</b>	: Closed cup: Not applicable.
<b>Evaporation rate</b>	: <1 (butyl acetate = 1)
<b>Flammability (solid, gas)</b>	: Not available.
<b>Lower and upper explosive (flammable) limits</b>	: Not available.
<b>VOC (less water, less exempt solvents)</b>	: 10.7 g/l
<b>Volatility</b>	: 54.1% (w/w)
<b>Vapor density</b>	: Not available.
<b>Relative density</b>	: 1.0771
<b>Solubility</b>	: Not available.
<b>Solubility in water</b>	: Not available.
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>Viscosity</b>	: Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: No specific data.
<b>Incompatible materials</b>	: No specific data.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### Conclusion/Summary

<b>Skin</b>	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
<b>Eyes</b>	: This product may irritate eyes upon contact.
<b>Respiratory</b>	: Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

#### Sensitization

Not available.

#### Mutagenicity

Not available.



## Section 11. Toxicological information

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Routes of entry anticipated: Oral, Inhalation.  
Routes of entry not anticipated: Dermal.

### Potential acute health effects

**Eye contact** : This product may irritate eyes upon contact.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**General** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

Not available.

### Persistence and degradability

Not available.

### Bioaccumulative potential

Not available.

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	<b>DOT Classification</b>	<b>TDG Classification</b>	<b>Mexico Classification</b>	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA</b>
<b>UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>UN proper shipping name</b>	-	-	-	-	-	-
<b>Transport hazard class(es)</b>	-	-	-	-	-	-
<b>Packing group</b>	-	-	-	-	-	-
<b>Environmental hazards</b>	No.	No.	No.	No.	No.	No.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

### U.S. Federal regulations

#### [SARA 302/304](#)

##### [Composition/information on ingredients](#)

No products were found.

**SARA 304 RQ** : Not applicable.

#### [SARA 311/312](#)

**Classification** : Not applicable.

##### [Composition/information on ingredients](#)

No products were found.

### State regulations

**Massachusetts** : None of the components are listed.

**New York** : None of the components are listed.

**New Jersey** : None of the components are listed.

**Pennsylvania** : None of the components are listed.

#### [California Prop. 65](#)

None of the components are listed.

### International regulations

#### [Chemical Weapon Convention List Schedules I, II & III Chemicals](#)

Not listed.

#### [Montreal Protocol](#)

Not listed.

#### [Stockholm Convention on Persistent Organic Pollutants](#)

Not listed.

#### [UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

### Inventory list

**China** : Not determined.

**United States TSCA 8(b) inventory** : All components are listed or exempted.

## Section 16. Other information

### [Hazardous Material Information System \(U.S.A.\)](#)

Health	/	0
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.



## Section 16. Other information

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### Procedure used to derive the classification

Classification	Justification
Not classified.	

### History

<b>Date of printing</b>	: 12/18/2019
<b>Date of issue/Date of revision</b>	: 4/24/2018
<b>Date of previous issue</b>	: 4/24/2018
<b>Version</b>	: 1
<b>Key to abbreviations</b>	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

**References** : Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

## 1. IDENTIFICATION

### VERSATILE® Premium Pressure Sensitive Adhesive for Carpet Tile and LVT/LVP

Recommended use of the chemical and restriction on use:  
interior installation of flooring material over approved  
subfloors –releasable installation of modular carpet tiles and  
positionable installation of LVT/LVP.

**Company:** W.F. Taylor LLC 800 College Drive, Dalton, GA  
30720, USA, (800) 868-4583

**Emergency Telephone Number:** (800) 535-5053

**Other Means of Identification**

**Chemical Family:** Acrylate latex and resin blend

## 2. HAZARDS IDENTIFICATION

According to regulation 2012 OSHA Hazard Communication  
Standard: 29 CFR Part 1910.1200

### Classification of the Product

No need for classification according to GHS criteria for this  
product.

### Label Elements

This product does not require a hazard warning label in  
accordance with GHS criteria.

### Hazards Not Otherwise Classified

None known if used according to instructions.  
Irritation may occur when in contact with eyes and skin.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

According to Regulation 1994 OSHA Hazard Communication  
Standard: 29 CFR Part 1910.1200

This product does not contain any components classified as  
hazardous under the referenced regulation.

According to Regulation 1994 OSHA Hazard Communication  
Standard : 29 CFR Part 1910.1200

CAS #	Content	Chemical Name
Trade Secret	10 - 15	Tackifier resin
Trade Secret	60 - 80	Acrylic latex
7732-18-5	10 - 20	Water

## 4. FIRST AID MEASURES

**General Advice:** Upon contact, remove material from skin,  
eyes and clothing. If irritation persists, seek medical attention.

**If Inhaled:** Remove individual to fresh air if needed.

**If on Skin:** Wash with mild soap and water.

**If in Eyes:** Open eyelids and flush with running water for  
at least 15 minutes.

**If Swallowed:** Do not induce vomiting. Seek medical help  
immediately.

**Most Important Symptoms and Effects, Both Acute and  
Delayed:** None expected due to non-classification of the  
product.

**Indication of Any Immediate Medical Attention and Special  
Treatment Needed:** *Note to physician* - Symptomatic  
Treatment

## 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

None needed in wet state. Product is water based. Dry  
material will burn. Use water spray, foam, dry powder when  
needed.

### Special Hazards Arising from the Substance or Mixture

Material is a mixture of organic compounds. Compounds of  
carbon may arise during burning.

**Advice for fire-fighters:** Wear self-contained breathing  
apparatus and turn out gear.

### Further Information

Dispose debris and contaminated clothing in accordance with  
regulations.

## 6. ACCIDENTAL RELEASE MEASURES

**Further Accidental Release Measures:** Slip hazard when spilled.

### Personal Precautions Protective Equipment and Emergency

**Procedures:** Use personal protective clothing. Avoid contact  
with skin and eyes.

**Environmental Precautions:** Do not release spilled material into  
natural waters.

### Methods and Material for Containment and Cleaning Up:

Pick up with suitable absorbent material. Dispose of absorbed  
material in accordance with regulations. Spills should be  
contained, solidified, and placed in suitable containers for  
disposal.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Do not puncture. Keep out of the reach of children.

### Conditions for Safe Storage, Including any Incompatibilities

Keep from freezing. Avoid extreme temperatures.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### Advice on System Design

Maintain proper ventilation.

### Personal Protective Equipment:

**Respiratory Protection:** NIOSH respirator if needed. Use local exhaust ventilation. Do not use closed air-circulating system.

**Skin Protection:** Chemical resistant gloves, apron, coveralls, and boots to prevent unnecessary contact.

**Eye Protection:** Safety glasses, goggles, or face shield

### General Safety and Hygiene Safety Measures:

Wash hands and/or face after use. Launder contaminated clothing before re-use. Always use protective equipment to avoid direct contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form:** Low viscosity liquid

**Odor:** Mild

**Odor Threshold:** No data

**Color:** Light blue

**pH Value:** 9.0 – 9.5

**Melting Point:** Not applicable

**Boiling Point:** Similar to water

**Flash Point:** Not applicable

**Flammability:** Non-flammable

**Lower Explosion Limit:** Low

**Upper Explosion Limit:** Low

**Vapor Pressure:** Low

**Density:** 8.25 - 8.65 lbs. per gallon

**Relative Density:** 0.99 - 1.04 grams/cm<sup>3</sup>

**Vapor Density:** Low

**Partition Coefficient n-octanol/water (log Pow):** No data

**Self-Ignition Temperature:** Not Applicable

**Solubility in Water:** Limited

**Miscibility in Water:** Miscible

**Evaporation Rate:** Same as water

**Other Information:**

## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable

**Chemical Stability:** Stable

**Possibility of Hazardous Reactions:** None, product is stable

**Conditions to avoid:** Extreme temperatures

**Incompatible Materials:** None known

**Hazardous Decomposition Products:** None known

## 11. TOXICOLOGICAL INFORMATION

No Data Available

**Primary routes of exposure:** Respiratory, eyes, skin. Ingestion is not likely but might cause gastric disturbances.

### Acute Toxicity/Effects

Acute toxicity: May cause irritation upon contact.

### Chronic Toxicity Effects

**Repeated Dose Toxicity:** No data available

**Genetic Toxicity:** No data available

**Carcinogenicity:** Not carcinogenic

**Reproductive Toxicity:** No data available

**Teratogenicity:** No data available

**Experiences in Humans:** No data available

**Other Information:**

## 12. ECOLOGICAL INFORMATION

No data available

## 13. DISPOSAL CONSIDERATIONS

Abide by all state, federal and local regulations

## 14. TRANSPORTATION INFORMATION

**Proper Shipping Name:** Not applicable

**Proper Hazard Class:** Not hazardous

**Hazard Code:** None hazardous

**Bill of Lading Description:** Adhesives, NOI

## 15. REGULATORY INFORMATION

### Federal Regulations:

#### Registration Status:

TSCA: Chemicals contained in the product are either listed or exempt in the U.S. EPA TSCA inventory list.

SARA Title III, Section 312 Hazard Class: None

EPA SARA Title III Section 312: None

#### NFPA Hazard Codes:

Health: 1                      Fire: 0

Reactivity: 0                Special:

#### HMIS rating:

Health: 1                      Flammability: 0                      Physical Hazard: 0

## 16. OTHER INFORMATION

**SDS prepared by:** W.F. Taylor, LLC SDS Group

**SDS prepared on:** April 6, 2017

*W.F. Taylor, LLC (Taylor) believes the data set forth herein is accurate as of the date hereof. Taylor makes no warranty with respect hereto and expressly disclaims all liability of reliance thereon. All data is offered solely for consideration, investigation, and verification.*