Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name: Water Cut-Off Mastic
Synonyms: Butyl Mastic
Chemical Family: Mastic
Product Use: Elastomeric sealer for Single-Ply Membranes
Restrictions on Use: For industrial use only.

Manufacturer Information
Carlisle SynTec
1285 Ritner Highway
Carlisle, PA 17013
USA
Phone: +1-800-479-6832
Emergency Phone #: +1-800-424-9300 (CHEMTREC)

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.
Flammable Liquids - Category 2
Skin Corrosion/Irritation - Category 2
Specific Target Organ Toxicity - Single Exposure - Category 3

GHS Label Elements
Symbol(s)

Signal Word
Danger

Hazard Statement(s)
Highly flammable liquid and vapor
Causes skin irritation
May cause drowsiness or dizziness

Precautionary Statement(s)
Prevention
Keep container tightly closed
Keep away from heat/sparks/open flame/hot surfaces - No smoking
Ground/Bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Take precautionary measures against static discharge
Use only non-sparking tools
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapours/spray
Wash thoroughly after handling

Response
In case of fire: Use appropriate media to extinguish
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Call a POISON CENTER or doctor if you feel unwell
Specific treatment (see label)

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

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

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Secret</td>
<td>Silica compound</td>
<td>1-5</td>
</tr>
<tr>
<td>Trade Secret</td>
<td>Polyphenol antioxidant</td>
<td>&lt; 0.1</td>
</tr>
<tr>
<td>Trade Secret</td>
<td>Severely hydrotreated paraffinic oil</td>
<td>1-5</td>
</tr>
<tr>
<td>Trade Secret</td>
<td>Polybutene</td>
<td>10-30</td>
</tr>
<tr>
<td>64742-89-8</td>
<td>Solvent naphtha, petroleum, light aliphatic</td>
<td>10-30</td>
</tr>
<tr>
<td>Mixture</td>
<td>Hydrous clay</td>
<td>3-7</td>
</tr>
</tbody>
</table>

Section 4 - FIRST AID MEASURES

Inhalation
Remove person to fresh air and keep comfortable for breathing. Give artificial respiration if not breathing. Call a POISON CENTER or doctor if you feel unwell.

Skin
Remove/Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs, get medical advice/attention.

Eyes
Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Ingestion
If swallowed, do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Indication of any immediate medical attention and special treatment needed
Treat symptomatically and supportively.

Most Important Symptoms/Effects
Acute
Causes skin irritation. May cause drowsiness or dizziness.

Delayed
No information on significant adverse effects.

Section 5 - FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media
Dry chemical, foam or carbon dioxide. Water may be ineffective. Use water spray to keep containers cool.

Unsuitable Extinguishing Media
Do not use high-pressure water streams.

Special Hazards Arising from the Chemical
Highly flammable liquid and vapor. Can burn and explode easily when exposed to open flames or high heat. Vapors are heavier than air and may travel a considerable distance to a source of ignition and flashback.

Hazardous Combustion Products
Oxides of carbon, aldehydes

Firefighting Measures
Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up
Remove all sources of ignition. Avoid breathing vapors. Ventilate affected area. Absorb with earth, sand or other non-combustible material and transfer to container. Use non-sparking tools. Dike for later disposal. Dispose in accordance with all applicable regulations.

Environmental Precautions
Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling
Keep away from heat/sparks/open flames/hot surfaces. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe
Safety Data Sheet

Material Name: Water Cut-Off Mastic

Product #: 319621

dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. KEEP OUT OF REACH OF CHILDREN.

Conditions for Safe Storage, Including any Incompatibilities
Store in a well-ventilated place. Keep container tightly closed
Keep cool
Store locked up
Keep away from heat and ignition sources. Keep away from incompatible materials. Do not cut, puncture, or weld on or near this container.

Incompatible Materials
Strong oxidizing agents, acids, bases

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate</td>
<td>1317-65-3</td>
</tr>
<tr>
<td>NIOSH:</td>
<td>10 mg/m³ TWA total dust; 5 mg/m³ TWA respirable dust</td>
</tr>
<tr>
<td>OSHA (US):</td>
<td>15 mg/m³ TWA total dust; 5 mg/m³ TWA respirable fraction</td>
</tr>
<tr>
<td>Mexico:</td>
<td>10 mg/m³ TWA LMPE-PPT; 20 mg/m³ STEL [LMPE-CT]</td>
</tr>
<tr>
<td>Silica compound</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>OSHA (US):</td>
<td>20 mppcf TWA; ((80)/(% SiO2) mg/m³ TWA)</td>
</tr>
<tr>
<td>Mexico:</td>
<td>10 mg/m³ TWA LMPE-PPT</td>
</tr>
<tr>
<td>Carbon compound</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>ACGIH:</td>
<td>3 mg/m³ TWA inhalable fraction</td>
</tr>
<tr>
<td>NIOSH:</td>
<td>3.5 mg/m³ TWA; 0.1 mg/m³ TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons) as PAH</td>
</tr>
<tr>
<td>OSHA (US):</td>
<td>3.5 mg/m³ TWA</td>
</tr>
<tr>
<td>Mexico:</td>
<td>3.5 mg/m³ TWA LMPE-PPT; 7 mg/m³ STEL [LMPE-CT]</td>
</tr>
<tr>
<td>Silica, crystalline</td>
<td>14808-60-7</td>
</tr>
</tbody>
</table>
**Biological limit value**
There are no biological limit values for any of this product's components.

**Engineering Controls**
Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/face protection**
Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Skin Protection**
Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Recommended material: protective skin cream.

**Respiratory Protection**
A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**Glove Recommendations**
Wear appropriate chemical resistant gloves.

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### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>gray viscous liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>mild, solvent</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point Range</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>119 - 141 °C (246-286 °F)</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition</td>
<td>Not available</td>
</tr>
<tr>
<td>Autoignition</td>
<td>246 °C (475 °F)</td>
</tr>
<tr>
<td>Flash Point</td>
<td>10 °C (50 °F)</td>
</tr>
<tr>
<td>Lower Explosive Limit</td>
<td>0.9 %</td>
</tr>
<tr>
<td>Upper Explosive Limit</td>
<td>6.7 %</td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>4</td>
</tr>
<tr>
<td>Specific Gravity (water=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>0.5</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>1200000 cps</td>
</tr>
<tr>
<td>Solubility (Other)</td>
<td>hydrocarbons</td>
</tr>
</tbody>
</table>
Section 10 - STABILITY AND REACTIVITY

Reactivity
No reactivity hazard is expected.

Chemical Stability
Stable under normal conditions of use.

Possibility of Hazardous Reactions
Hazardous polymerization will not occur.

Conditions to Avoid
Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials
Strong oxidizing agents, acids, bases.

Hazardous decomposition products
Oxides of carbon, aldehydes

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation
May cause drowsiness or dizziness.

Skin Contact
Causes skin irritation.

Eye Contact
May cause eye irritation.

Ingestion
May cause gastrointestinal irritation.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:
Carbon compound (Trade Secret)
  Oral LD50 Rat >8000 mg/kg

Polyphenol antioxidant (Trade Secret)
  Oral LD50 Rat >5000 mg/kg
  Dermal LD50 Rabbit >5000 mg/kg
Safety Data Sheet

**Material Name:** Water Cut-Off Mastic

Severely hydrotreated paraffinic oil (Trade Secret)
- Oral LD50 Rat >5000 mg/kg
- Dermal LD50 Rabbit >2000 mg/kg

Polybutene (Trade Secret)
- Oral LD50 Rat >34600 mg/kg
- Dermal LD50 Rat >10250 mg/kg

Solvent naphtha, petroleum, light aliphatic (64742-89-8)
- Oral LD50 Rat >2000 mg/kg
- Dermal LD50 Rat >2000 mg/kg

Silica, crystalline (14808-60-7)
- Oral LD50 Rat 500 mg/kg

**Immediate Effects**
Causes skin irritation. May cause drowsiness or dizziness. May cause gastrointestinal irritation.

**Delayed Effects**
No information on significant adverse effects.

**Irritation/Corrosonivity Data**
Causes skin irritation. May cause gastrointestinal irritation.

**Respiratory Sensitization**
No data available.

**Dermal Sensitization**
No data available.

**Component Carcinogenicity**

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Silica compound</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trade Secret</td>
</tr>
<tr>
<td>IARC</td>
<td>Monograph 68 [1997] (Group 3 (not classifiable))</td>
</tr>
<tr>
<td><strong>Carbon compound</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trade Secret</td>
</tr>
<tr>
<td>ACGIH</td>
<td>A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans</td>
</tr>
<tr>
<td>IARC</td>
<td>Monograph 93 [2010]; Monograph 65 [1996] (Group 2B (possibly carcinogenic to humans))</td>
</tr>
<tr>
<td>DFG</td>
<td>Category 3B (could be carcinogenic for man, inhalable fraction)</td>
</tr>
<tr>
<td>OSHA</td>
<td>Present</td>
</tr>
<tr>
<td><strong>Silica, crystalline</strong></td>
<td>14808-60-7</td>
</tr>
<tr>
<td>ACGIH</td>
<td>A2 - Suspected Human Carcinogen</td>
</tr>
<tr>
<td>IARC</td>
<td>Monograph 100C [2012]; Monograph 68 [1997] (Group 1 (carcinogenic to humans))</td>
</tr>
<tr>
<td>NTP</td>
<td>Known Human Carcinogen (respirable size)</td>
</tr>
</tbody>
</table>
Material Name: Water Cut-Off Mastic

| DFG: | Category 1 (causes cancer in man, alveola fraction) |
| OSHA: | Present (respirable size) |

Germ Cell Mutagenicity
No data available.

Reproductive Toxicity
No data available.

Specific Target Organ Toxicity - Single Exposure
May affect the central nervous system: drowsiness, dizziness.

Specific Target Organ Toxicity - Repeated Exposure
No target organs identified.

Aspiration hazard
No data available.

Medical Conditions Aggravated by Exposure
No data available.

Additional Data
This product contains crystalline silica, which is a known carcinogen. However, this component is bound by the polymer portion of the sealant. The only way this component would be released is through incineration. Therefore, this product is not considered a carcinogen.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity
Avoid release to the environment.

Component Analysis - Aquatic Toxicity

<table>
<thead>
<tr>
<th>Polyphenol antioxidant</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish:</td>
<td>LC50 96 h Oncorhynchus mykiss &gt;0.2 mg/L [semi-static]</td>
</tr>
<tr>
<td>Algae:</td>
<td>EC50 72 h Pseudokirchneriella subcapitata &gt;0.2 mg/L IUCLID</td>
</tr>
<tr>
<td>Invertebrate:</td>
<td>EC50 48 h Daphnia magna &gt;0.2 mg/L IUCLID</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Severely hydrotreated paraffinic oil</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish:</td>
<td>LC50 96 h Oncorhynchus mykiss &gt;5000 mg/L</td>
</tr>
<tr>
<td>Invertebrate:</td>
<td>EC50 48 h Daphnia magna &gt;1000 mg/L IUCLID</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Polybutene</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish:</td>
<td>Fish LC50 96 hr &gt;1000 mg/L</td>
</tr>
</tbody>
</table>
Safety Data Sheet

Material Name: Water Cut-Off Mastic
Product #: 319621

<table>
<thead>
<tr>
<th>Solvent naphtha, petroleum, light aliphatic</th>
<th>64742-89-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algae:</td>
<td>EC50 72 h Pseudokirchneriella subcapitata 4700 mg/L IUCLID</td>
</tr>
<tr>
<td>Hydrous clay</td>
<td>Mixture</td>
</tr>
<tr>
<td>Fish:</td>
<td>Fish LC50 96 hr Oncorhynchus 19000 mg/L</td>
</tr>
</tbody>
</table>

**Persistence and Degradability**
No information available for the product.

**Bioaccumulative Potential**
No information available for the product.

**Mobility**
No information available for the product.

**Other Toxicity**
No additional information available.

Section 13 - DISPOSAL CONSIDERATIONS

**Disposal Methods**
Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14 - TRANSPORT INFORMATION

**US DOT Information:**
Shipping Name: ADHESIVES
Hazard Class: 3
UN/NA #: UN1133
Packing Group: II
Required Label(s): < 0.3 gal use Limited Quantity Label

**IATA Information:**
Shipping Name: ADHESIVES
Hazard Class: 3
UN#: UN1133
Packing Group: II
Required Label(s): < 0.3 gal use Limited Quantity Label

**TDG Information:**
Shipping Name: ADHESIVES
Hazard Class: 3
UN#: UN1133
Packing Group: II

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U.S. Federal Regulations
None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)
Acute Health: Yes Chronic Health: Yes Fire: Yes Pressure: No Reactivity: No

U.S. State Regulations
The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate</td>
<td>1317-65-3</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Silica compound</td>
<td>Trade Secret</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Carbon compound</td>
<td>Trade Secret</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Silica, crystalline</td>
<td>14808-60-7</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
WARNING! This product contains a chemical known to the state of California to cause cancer

<table>
<thead>
<tr>
<th>Carbon compound</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carc:</td>
<td>carcinogen, initial date 2/21/03 (airborne, unbound particles of respirable size)</td>
</tr>
<tr>
<td>silica, crystalline</td>
<td>14808-60-7</td>
</tr>
<tr>
<td>Carc:</td>
<td>carcinogen, initial date 10/1/88 (airborne particles of respirable size)</td>
</tr>
</tbody>
</table>

Canadian WHMIS Ingredient Disclosure List (IDL)
Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

<table>
<thead>
<tr>
<th>Carbon compound</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 %</td>
<td></td>
</tr>
<tr>
<td>silica, crystalline</td>
<td>14808-60-7</td>
</tr>
<tr>
<td>1 %</td>
<td></td>
</tr>
</tbody>
</table>

Component Analysis - Inventory
Calcium carbonate (1317-65-3)

|----|----|----|----|----|----------|----------|----------------|----------|----|----|----|
Safety Data Sheet

**Material Name:** Water Cut-Off Mastic  
**Product #:** 319621

<table>
<thead>
<tr>
<th>Yes</th>
<th>NSL</th>
<th>EIN</th>
<th>Yes</th>
<th>Yes</th>
<th>Yes</th>
<th>No</th>
<th>Yes</th>
<th>No</th>
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</thead>
</table>

**Silica compound (Trade Secret)**

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
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</table>

**Carbon compound (Trade Secret)**

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</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
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</tbody>
</table>

**Polyphenol antioxidant (Trade Secret)**

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<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**Severely hydrotreated paraffinic oil (Trade Secret)**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
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</table>

**Polybutene (Trade Secret)**

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</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</tbody>
</table>

**Solvent naphtha, petroleum, light aliphatic (64742-89-8)**

<table>
<thead>
<tr>
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**Hydrous clay (Mixture)**

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**Silica, crystalline (14808-60-7)**

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**Section 16 - OTHER INFORMATION**
Safety Data Sheet

Material Name: Water Cut-Off Mastic

HMIS Rating

Health: 2 Fire: 3 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings

Health: 2 Fire: 3 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes

Revision Date: January 24, 2019
Revision Note: General Update

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia;
BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA -
Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and
Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT -
Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European
Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA -
Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on
Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL -
Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous
Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level
Limit Value; LOLI - List Of Lists™ - ChemADVISOR’s Regulatory Database; MAK - Maximum Concentration Value in
the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute
for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program;
NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource
Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID -
European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit;
TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average;
UEL - Upper Explosive Limit; US - United States.

Other Information

Disclaimer:
The information contained herein is based upon data and information available to us, and reflects our best professional
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use.