1.0 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier
Trade name: Victaulic Lubricant

1.2. Relevant identified uses of the substance or mixture and uses advised against
1.2.1. Relevant identified uses
Industrial/Professional use spec.: Industrial. For professional use only.
Use of the substance/mixture: A Pipe Joint Lubricant. For professional use only.

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet
Supplier: Victaulic Europe BVBA
Manufacturer: JTM Products, Inc.
Prijkelstraat 36
31025 Carter Street
B-9810 Nazareth, Belgium
Solon, OH 44139
Telephone Number: +0032 9381 1500
Email: viceuro@victaulic.com
web: www.victaulic.com

1.4. Emergency telephone number
For Chemical Emergency: spill, leak, fire, exposure, or accident CHEMTREC® 24-hour service:
Europe/International: 00-1-703-741-5970 (collect calls accepted)
US/Canada: 1-800-424-9300

2.0 HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture
2.1.1. Classification according to Regulation (EC) No. 1272/2008 [CLP]
This mixture is classified as H319, a Category 2 eye irritant

2.1.2. Adverse physicochemical, human health and environmental effects
No additional information available

ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.
2.0 HAZARDS IDENTIFICATION (Continued)

2.1.4. Additional information
For a full text of H-statements: see Section 16

2.2. Label Elements
Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictogram:

![Hazard Pictogram]

Signal Word: Warning

Hazard Statement:
H319: Causes serious eye irritation

Precautionary Statements:
P264 Wash your hands thoroughly after handling
P280 Wear eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

2.3. Other Hazards
Not applicable

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatty acids, tall-oil, potassium salts</td>
<td>(CAS No) 61790-44-1 (EC No) 262-993-9</td>
<td>77.3</td>
<td>H319</td>
</tr>
<tr>
<td>1,2-Propylene glycol</td>
<td>(CAS No) 57-55-6 (EC No) 200-338-0</td>
<td>14.6</td>
<td>Not classified</td>
</tr>
<tr>
<td>Mica substance with national workplace exposure limit(s) (AT, BE, BG, CZ, ES, GB, IE, IT, PT, SK)</td>
<td>(CAS No) 12001-26-2</td>
<td>8</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16
4.0 DESCRIPTION OF FIRST AID MEASURES

4.1. Description of first aid measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

After inhalation: Not expected to present a significant inhalation hazard.

After skin contact: Remove contaminated clothing. Gently wash with plenty of soap and water. Wash contaminated clothing before reuse.

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

After ingestion: Rinse mouth. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

General: Not expected to present a significant health hazard under normal conditions of use.

After inhalation: Not expected to present a significant inhalation hazard.

After skin contact: May cause irritation due to prolonged/repeated periods of use.

After eye contact: May cause eye irritation.

After ingestion: May cause gastrointestinal irritation.

4.3 Indication of any immediate medical attention and special treatment needed

If you feel unwell, get medical advice and attention.

5.0 FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Not considered flammable but may burn at high temperatures.

Explosion hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur.

5.3. Advice for firefighters

Precautionary measures fire: Exercise caution when fighting any chemical fire.

Firefighting instructions: Use water spray or fog for cooling exposed containers.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
6.0 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all contact with eyes, skin, or clothing.

6.1.1. For non-emergency personnel
Protective equipment : Use appropriate personal protection equipment (PPE).
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Absorb and/or contain spill with inert material, then place in suitable container.
Methods for cleaning up : Clear up spills immediately and dispose of waste safely.

6.4. Reference to other sections

See Section 8.

7.0 HANDLING AND STORAGE

7.1. Precautions for safe handling
Precautions for safe handling : Avoid all contact with eyes, skin, or clothing.
Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures : Comply with applicable regulations.
Storage conditions : Store in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

A Pipe Joint Lubricant. For professional use only.
### 8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

<table>
<thead>
<tr>
<th>Compound</th>
<th>Limit value - Eight hours</th>
<th>Limit value - Short term</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fatty acids, tall-oil, potassium salts (CAS 61790-44-1)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mica (CAS 12001-26-2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Austria</td>
<td>10 mg/m³ (inhalable aerosol)</td>
<td></td>
</tr>
<tr>
<td>Belgium</td>
<td>3 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Denmark</td>
<td>0.3 fibers per cm³</td>
<td>0.3 fibers per cm³</td>
</tr>
<tr>
<td>Ireland</td>
<td>10 mg/m³ (inhalable fraction)</td>
<td>0.8 mg/m³ (respirable fraction)</td>
</tr>
<tr>
<td>Latvia</td>
<td>4 mg/m³ (and phlogopite muscovite)</td>
<td></td>
</tr>
<tr>
<td>Switzerland</td>
<td>3 mg/m³ (respirable aerosol)</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>10 mg/m³ (inhalable aerosol)</td>
<td>0.8 mg/m³ (respirable aerosol)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>1,2-Propylene glycol (CAS 57-55-6)</strong></th>
<th>Limit value - Eight hours</th>
<th>Limit value - Short term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ireland</td>
<td>470 mg/m³ (total vapor &amp; particulate)</td>
<td>10 mg/m³ (particulate)</td>
</tr>
<tr>
<td>Latvia</td>
<td>7 mg/m³ (particulate)</td>
<td></td>
</tr>
<tr>
<td>Norway</td>
<td>79 mg/m³</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>474 mg/m³ (total vapor &amp; particulate)</td>
<td>10 mg/m³ (particulate)</td>
</tr>
</tbody>
</table>

**Source:** GESTIS International Limit Values: http://limitvalue.ifa.dguv.de/

#### 8.2. Exposure controls

**Appropriate engineering controls**: Not expected to exceed permissible exposure level under intended use. Emergency eye wash fountains and safety showers should be available in the immediate vicinity. Ensure all national/ local regulations are observed.

**Personal protective equipment**: Safetyglasses.

**Materials for protective clothing**: No special clothing required.

**Hand protection**: No special clothing required.

**Eye protection**: Wear safetyglasses.

**Skin and body protection**: No special clothing required.

**Respiratory protection**: Under normal use it is not expected that exposure limits will be exceeded.

**Other information**: When using, do not eat, drink or smoke.
9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Appearance: Amber viscous paste
Odor: Mild
Odor threshold: No data available
pH: 11
Relative evaporation rate (butyl acetate=1): No data available
Melting point: < 0°C (32°F)
Freezing point: No data available
Boiling point: > 104°C (220°F)
Flash Point: > 104°C (220°F)
Auto-ignition temperature: No data available
Decomposition Temperature: No data available
Flammability (solid, gas): No data available
Vapor pressure: No data available
Relative vapor density at 20°C: No data available
Relative density: 1.08 (water = 1)
Density: 1.07 kg/L (9.01 lbs/gal) at room temperature
Solubility: Soluble in water
Log Pow: No data available
Log Kow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: No data available

9.1. Information on basic physical and chemical properties Oxidizing properties: No data available
Explosive limits: Not applicable

9.2. Other information
VOC content: 146 g/L

10.0 STABILITY AND REACTIVITY

10.1. Reactivity
Hazardous reactions will not occur.

10.2. Chemical stability
Stable at standard temperature and pressure.

10.3. Possibility of hazardous reactions
Hazardous reactions will not occur.

10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Carbon oxides (CO, CO₂). Silicon oxides.
11.0 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity : No data is available on the mixture. Acute toxicity data via the oral route is available for 1,2-propylene glycol. Not acutely toxic.

<table>
<thead>
<tr>
<th>Substances</th>
<th>LD50 oral rat (mg/kg)</th>
<th>LD50 dermal rabbit (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Propylene glycol (57-55-6)</td>
<td>22000</td>
<td>&gt;2000</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Not classified (pH: 11).

Serious eye damage/irritation : The mixture is classified as eye irritant substance H319 according to Regulation (EC) 1272/2008.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Not expected to present a significant hazard under normal conditions of use.

12.0 ECOLOGICAL INFORMATION

12.1. Toxicity

No data are available on the mixture. Aquatic toxicity data are available for 1,2-propylene glycol. The substance is not classified for aquatic toxicity.

<table>
<thead>
<tr>
<th>Substances</th>
<th>EC50/Fish (mg/l)</th>
<th>EC50/Daphnia (mg/l)</th>
<th>EC50/Aquatic algae (mg/l)</th>
<th>LC50/fish (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Propylene glycol (57-55-6)</td>
<td>10000</td>
<td>19000</td>
<td>41000</td>
<td>41000 - 47000</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

Victaulic Lubricant

Persistence and degradability : Not established.

12.3. Bioaccumulative potential

No data is available on this mixture. A BCF value has been estimated by calculation based on the phys-chem properties of the substance 1,2-propylene glycol.

<table>
<thead>
<tr>
<th>Substances</th>
<th>Bioaccumulative potential</th>
<th>BCF calculated value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Victaulic Lubricant</td>
<td>Not established.</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>1,2-Propylene glycol (CAS 57-55-6)</td>
<td>Not established.</td>
<td></td>
</tr>
</tbody>
</table>
12.0 ECOLOGICAL INFORMATION (Continued)

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
Other information : Avoid release to the environment.

13.0 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Waste disposal recommendations : Dispose of waste material in accordance with all local, regional, national, and international regulations.

14.0 TRANSPORT INFORMATION

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number
No dangerous good in sense of transport regulations.

14.2. UN proper shipping name
Not applicable

14.3. Transport hazard class(es)
Not applicable.

14.4. Packing group
Not applicable.

14.5. Environmental hazards
Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1 Overland transport
No additional information available

14.6.2 Transport by sea
No additional information available

14.6.3. Air transport
No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.
15.0 REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations
No REACH Annex XVII restrictions Contains
no REACH candidate substance
VOC content : 146g/L

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

16.0 OTHER INFORMATION

16.1. Indication of changes
updated 11/2017

16.2. Abbreviations and acronyms
ADNR : European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR : European Agreement Concerning the International Carriage of Dangerous Goods by Road
AGS : Ausschuss für Gefahrstoffe
CLP : Classification, Labelling and Packaging regulation
DFG : Deutsche Forschungsgemeinschaft
DPD : Dangerous Preparation Directive
EC50 : effective concentration which causes 50% of the maximum response
IATA : International Air Transport Association
ICAO : International Civil Aviation Organization
IMDG : International Maritime Dangerous Goods Code
LC50 : lethal concentration which causes death of 50% of a group of test animals PBT
: persistent, bioaccumulative, toxic
PPM : parts per million
RID : European Agreement Concerning the International Carriage of Dangerous Goods by Rail
16.0 OTHER INFORMATION (Continued)

16.2. Abbreviations and acronyms
vPvB : very persistent, very bioaccumulative
VOC : volatile organic compound

16.3. Data Sources


GESTIS International Limit Values: http://limitvalue.ifa.dguv.de/

Classification and procedure used to derive the classification for the mixture according to Regulation (EC) No 1272/2008 :

<table>
<thead>
<tr>
<th>Classification according to Regulation (EC) 1272/2008</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye irrit. 2, H319</td>
<td>Calculation method (Fatty acids, vegetable-oil, potassium salts)</td>
</tr>
</tbody>
</table>

16.4. Relevant H-statements (number and full text)

H319: Causes serious eye irritation

16.5. Training advice

Always refer to the installation instructions, supplied with the product, and Victaulic publication 05.02-EU (Victaulic Lubricant Safety Data Sheet) for complete lubrication information and requirements. These documents can be downloaded at victaulic.com

SDS EU (REACH ANNEX II)

Disclaimer: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.