Section 1 - Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier
Trade Name: Part A for: Smooth-Cast® 325 EU, 326 EU and 327 EU

1.2 Relevant identified uses of the substance or mixture and uses advised against
General Use: Polyurethane Elastomer
Restrictions on Use: None known

1.3 Details of the supplier of the safety data sheet:
Company: Smooth-On, Inc.,
5600 Lower Macungie Rd., Macungie, PA 18062
Telephone: Phone (610) 252-5800

E-mail address of person: Visit our website at www.smooth-on.com or email sds@smooth-on.com

1.4 Emergency Contact: Chem-Tel Domestic: 800-255-3924 International: 813-248-0585

Section 2 – Hazard(s) Identification

2.1 Classification of the substance or mixture:
Classification (REGULATION (EC) No 1272/2008) as amended

H315 Skin corrosion/irritation – Category 2
H317 Skin sensitization – Category 1
H319 Eye irritation – Category 2A
H332 Acute toxicity, inhalation – Category 4
H334 Respiratory Sensitization – Category 1
H335 Specific target organ toxicity – single exposure – Category 3 (respiratory)
H351 Carcinogenicity – Category 2
H373 Specific Target Organ Toxicity, repeated exposure Category 2 (respiratory)

For the full text of the H-Statements mentioned in this Section, see Section 16

2.2 Label elements, including precautionary statements

Labelling (REGULATION (EC) No 1272/2008) as amended

Pictogram(s):
Signal word: Danger

Health Hazards:
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 May cause respiratory irritation
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.

General Precautions:
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

Prevention Precautions:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 [In case of inadequate ventilation] wear respiratory protection.

Response Precautions:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P332 + P313 IF SKIN irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage Precautions:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal Precautions:
P501 Dispose of contents/container according to local, state and federal laws.

Supplemental Hazard Statements:
None

2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### Section 3 - Composition / Information on Ingredients

3.1 Substances/Mixtures
Hazardous ingredients according to Regulation (EC) No 1272/2008

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diphenylmethane-4,4'-diisocyanate</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Section 4 - First Aid Measures

4.1 Description of first aid measures

**Inhalation**
Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

**Eye Contact**
Flush eyes with plenty of water. If irritation persists, seek medical attention.

**Skin Contact**
In case of skin contact, wash thoroughly with soap and water.

**Ingestion**
Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed
None known.

4.3 Indication of any immediate medical attention and specific treatment needed

Section 5 - Fire-Fighting Measures

5.1 Extinguishing Media
Water Fog, Dry Chemical, and Carbon Dioxide Foam

5.2 Special hazards arising from the substance or mixture
None known.

5.3 Advice for firefighters
Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off “fuel” to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure demand or positive-pressure mode.
Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

6.2 Environmental precautions
Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. No special environmental precautions required.

6.3 Methods and material for containment and cleaning up
Put on appropriate protective gear including approved self-contained breathing apparatus, rubber boots and heavy rubber gloves. Dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely.

6.4 Reference to other sections
See Section 3 for list of Hazardous Ingredients; Sections 8 for Exposure Controls; and Section 13 for Disposal.

Section 7 - Handling and Storage

7.1 Precautions for safe handling
Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities
Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet local standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

7.3 Specific end use(s)
These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

Section 8 - Exposure Controls / Personal Protection

8.1 Control parameters:

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Value Form of exposure</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diphenylmethane 4,4'-di-isocyanate</td>
<td>101-68-8</td>
<td>TWA</td>
<td>0.02 mg/m³</td>
<td>UK. EH40 WEL - Workplace Exposure Limits</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>0.07 mg/m³</td>
<td>UK. EH40 WEL - Workplace Exposure Limits</td>
</tr>
</tbody>
</table>
Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitisier will become hyper-responsive and it is impossible to identify in advance those who are likely to become hyper-responsive. Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified asthmagens or respiratory sensitisers.

Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced as low as is reasonably practicable.

Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance. Capable of causing occupational asthma. The identified substances are those which: - are assigned the risk phrase 'R42: May cause sensitisation by inhalation'; or 'R42/43: May cause sensitisation by inhalation and skin contact' or - are listed in section C of HSE publication 'Asthmagen? Critical assessments of the evidence for agents implicated in occupational asthma' as updated from time to time, or any other substance which the risk assessment has shown to be a potential cause of occupational asthma.

The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma.

### Biological occupational exposure limits

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Parameters</th>
<th>Value</th>
<th>Biological specimen</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diphenylmethane 4,4'-di-isocyanate</td>
<td>101-68-8</td>
<td>urinary diamine</td>
<td>1µmol/mol creatinine</td>
<td>Urine</td>
<td>UK. Biological monitoring guidance values</td>
</tr>
<tr>
<td></td>
<td>Remarks</td>
<td>Post task</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>urinary diamine</td>
<td>1µmol/mol creatinine</td>
<td>Urine</td>
<td>UK. Biological monitoring guidance values</td>
</tr>
</tbody>
</table>

**8.2 Exposure controls:**

**Engineering measures**
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

**Eye protection**
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Hand protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Skin and body protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Protective measures
Ensure that eye flushing systems and safety showers are located close to the working place.

<table>
<thead>
<tr>
<th>Section 9 - Physical and Chemical Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>9.1 Information on basic physical and chemical properties:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Appearance:</th>
<th>Clear liquid</th>
<th>Vapor pressure:</th>
<th>0.0013 hPa at 25 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor:</td>
<td>Odorless</td>
<td>Vapor density (Air=1):</td>
<td>No data</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>No data</td>
<td>Relative density:</td>
<td>1.066 g/cm³ at 25 °C</td>
</tr>
<tr>
<td>pH:</td>
<td>No data</td>
<td>Solubility:</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Melting / freezing point:</td>
<td>26°C</td>
<td>Partition coefficient (n-octanol/water):</td>
<td>No data</td>
</tr>
<tr>
<td>Low / high boiling point:</td>
<td>113°C</td>
<td>Auto-ignition temperature:</td>
<td>No data</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>200°C</td>
<td>Decomposition temperature:</td>
<td>225 °C at 1,013 hPa</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>No data</td>
<td>Viscosity:</td>
<td>No data</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>No data</td>
<td>Explosive properties:</td>
<td>No data</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits:</td>
<td>No data</td>
<td>Oxidizing properties:</td>
<td>No data</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 10 - Stability and Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>10.1 Reactivity</strong></td>
</tr>
<tr>
<td>No hazardous reactions if stored and handled as prescribed/indicated., No corrosive effect on metal. Not fire propagating.</td>
</tr>
</tbody>
</table>

**10.2 Chemical stability**
These products are stable at room temperature in closed containers under normal storage and handling conditions.

**10.3 Possibility of hazardous reactions**
Hazardous polymerization cannot occur

**10.4 Conditions to avoid**
None known
10.5 Incompatible materials
Strong bases and acids

10.6 Hazardous decomposition products
Thermal oxidative decomposition can produce carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

Section 11- Toxicological Information

11.1 Information on toxicological effects:

**Acute Toxicity**
LD50 Oral - Rat - 9,200 mg/kg

LC50 Inhalation - Rat - male and female - 1 h - > 2.24 mg/l (OECD Test Guideline 403)

**Skin Corrosion/Irritation**
No data available

**Serious Eye Damage/Irritation**
Eyes - Rabbit
Result: Moderate eye irritation

**Respiratory/Skin Sensitization**
in vivo assay - Guinea pig Result: May cause sensitisation by inhalation.
in vivo assay – Mouse Result: May cause sensitisation by skin contact.

**Germ Cell Mutagenicity**
Laboratory experiments have shown mutagenic effects.
Ames test
S. typhimurium Result: negative
Mutagenicity (micronucleus test) Rat - male
Result: negative

**Carcinogenicity**
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies
IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Diphenylmethane-4,4'-diisocyanate)

**Reproductive Toxicity**
Reproductive toxicity - Rat - Inhalation
Maternal Effects: Other effects. Specific Developmental Abnormalities: Musculoskeletal system.

**Specific Target Organ Toxicity – Single Exposure:**
Inhalation - May cause respiratory irritation. - Respiratory system

**Specific Target Organ Toxicity – Repeated Exposure:**
Inhalation - May cause damage to organs through prolonged or repeated exposure. - Respiratory system

**Aspiration Hazard**
No data available
Potential Health Effects – Miscellaneous
RTECS: NQ9350000

Cough, Shortness of breath, Headache, Nausea, Vomiting, Pulmonary edema. Effects may be delayed.

### Section 12 - Ecological Information

#### 12.1 Toxicity
Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 0.35 mg/l - 24 h

#### 12.2 Persistence and Degradability
No data available

#### 12.3 Bioaccumulative Potential
Bioaccumulation Cyprinus carpio (Carp) - 28 d
- 0.0008 mg/l

#### 12.4 Mobility in Soil
No data available

#### 12.5 Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other Adverse Effects
No data available

### Section 13 - Disposal Considerations

#### 13.1 Waste treatment methods

**Product**
Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**
Dispose of as unused product.

### Section 14 - Transport Information

#### 14.1 UN number: 3082

#### 14.2 UN proper shipping name: Environmentally hazardous substance, liquid n.o.s. (bis(2-ethyl hexyl) phosphate)

#### 14.3 Transport hazard class(es): 9

#### 14.4 Packing group: III

#### 14.5 Environmental hazards: Marine Pollutant

#### 14.6 Special precautions for user: none known

#### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable
Section 15 - Regulatory Information

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

Authorisations and/or restrictions on use: REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

Diphenylmethane-4,4'-diisocyanate

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

California Proposition 65: This product does not intentionally contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this substance/mixture by the supplier.

16 - Other Information

Date Prepared: December 28, 2018
Revision: 4

Full text of H-Statements referred to under Sections 2 and 3.

H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 May cause respiratory irritation
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.

Abbreviations and acronyms:
ATE - Acute Toxicity Estimate; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006; EINECS - European Inventory of Existing Commercial Chemical Substances

ELINCS - European List of Notified Chemical Substances; CAS# - Chemical Abstract Service number; PPE - Personal Protection Equipment; Kow - octanol-water partition coefficient; DNEL - Derived No Effect Level; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); NOEC - No Observed Effect Concentration; PNEC - Predicted No Effect Concentration; RMM - Risk Management Measure; OEL - Occupational Exposure Limit; PBT - Persistent, Bioaccumulative and Toxic; vPvB - Very Persistent and Very Bioaccumulative; STOT - Specific Target Organ Toxicity; CSA - Chemical Safety Assessment; EN - European Standard; UN - United Nations; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; WGK - Water Hazard Class

Disclaimer: The information contained in this Safety Data Sheet (SDS) is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Smooth-On Inc., it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.
Section 1 - Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier
Trade Name: Smooth-Cast® 327 EU Part B

1.2 Relevant identified uses of the substance or mixture and uses advised against
General Use: Polyurethane Elastomer
Restrictions on Use: None known

1.3 Details of the supplier of the safety data sheet:
Company: Smooth-On, Inc.,
5600 Lower Macungie Rd., Macungie, PA 18062
Telephone: Phone (610) 252-5800
E-mail address of person: Visit our website at www.smooth-on.com or email
responsible for the SDS sds@smooth-on.com

1.4 Emergency Contact: Chem-Tel Domestic: 800-255-3924 International: 813-248-0585

Section 2 – Hazard(s) Identification

2.1 Classification of the substance or mixture:

Classification (REGULATION (EC) No 1272/2008) as amended

H300 Acute Toxicity, oral - Category 2
H310 Acute Toxicity, dermal – Category 1
H330 Acute Toxicity, inhalation – Category 2
H373 Specific Target Organ Toxicity, repeated exposure – Category 2
H400 Acute Aquatic Toxicity – Category 1
H410 Chronic Aquatic Toxicity – Category 1

For the full text of the H-Statements mentioned in this Section, see Section 16

2.2 Label elements, including precautionary statements

Labelling (REGULATION (EC) No 1272/2008) as amended

Pictogram(s):

Signal word: Danger

Health Hazards:
H300 Fatal if swallowed.
H310 Fatal in contact with skin.
H330 Fatal if inhaled.
H373 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

**General Precautions:**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

**Prevention Precautions:**
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P262 Take off contaminated clothing.
P264 Wash with soap and water thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 In case of inadequate ventilation wear respiratory protection.

**Response Precautions:**
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor/physician.
P314 Get medical advice/attention if you feel unwell.
P330 Rinse mouth.
P361 Take off immediately all contaminated clothing.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

**Storage Precautions:**
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

**Disposal Precautions:**
P501 Dispose of contents/container according to local, state and federal laws.

2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### Section 3 - Composition / Information on Ingredients

#### 3.1 Substances/Mixtures

Hazardous ingredients according to Regulation (EC) No 1272/2008

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenylmercuric oleate</td>
<td>Acute Tox Oral 2, Acute Tox Derm 1, Acute Tox Inhal 1, STOT RE 2, Aquatic</td>
<td>&lt;1.5%</td>
</tr>
<tr>
<td></td>
<td>Acute 1, Aquatic Chronic 1; H300, H310, H330, H373, H400, H410</td>
<td></td>
</tr>
<tr>
<td>CAS-No.</td>
<td>104-60-9</td>
<td></td>
</tr>
<tr>
<td>EC-No.</td>
<td>203-218-6</td>
<td></td>
</tr>
<tr>
<td>Index-No.</td>
<td>615-009-00-0</td>
<td></td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16.
Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation
Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

Eye Contact
Flush eyes with plenty of water. If irritation persists, seek medical attention.

Skin Contact
In case of skin contact, wash thoroughly with soap and water.

Ingestion
Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed
None known.

4.3 Indication of any immediate medical attention and specific treatment needed

Section 5 - Fire-Fighting Measures

5.1 Extinguishing Media
Water Fog, Dry Chemical, and Carbon Dioxide Foam

5.2 Special hazards arising from the substance or mixture
None known.

5.3 Advice for firefighters
Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off “fuel” to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure demand or positive-pressure mode.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

6.2 Environmental precautions
Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. No special environmental precautions required.

6.3 Methods and material for containment and cleaning up
Put on appropriate protective gear including approved self-contained breathing apparatus, rubber boots and heavy rubber gloves. Dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely.

6.4 Reference to other sections
See Section 3 for list of Hazardous Ingredients; Sections 8 for Exposure Controls; and Section 13 for Disposal.

Section 7 - Handling and Storage

7.1 Precautions for safe handling
Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities
Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet local standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

7.3 Specific end use(s)
These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

Section 8 - Exposure Controls / Personal Protection

8.1 Control parameters:
Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:
None defined.

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:
None defined.

8.2 Exposure controls:
Engineering measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment
Eye protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Skin and body protection**
The complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Protective measures**
Ensure that eye flushing systems and safety showers are located close to the working place.

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### Section 9 - Physical and Chemical Properties

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Clear liquid</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Musty</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>No data</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>No data</td>
</tr>
<tr>
<td><strong>Melting / freezing point</strong></td>
<td>No data</td>
</tr>
<tr>
<td><strong>Low / high boiling point</strong></td>
<td>No data</td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td>$&gt;$150°C</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>No data</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>No data</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td>No data</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>No data</td>
</tr>
<tr>
<td><strong>Vapor density (Air=1)</strong></td>
<td>$&gt;$1</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>No data</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water)</strong></td>
<td>No data</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>No data</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>No data</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>$&lt;$1000 centipoise</td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
<td>No data</td>
</tr>
<tr>
<td><strong>Specific Gravity (H2O=1, at 4 °C)</strong></td>
<td>1.0 – 1.2</td>
</tr>
</tbody>
</table>

---

### Section 10 - Stability and Reactivity

#### 10.1 Reactivity
No hazardous reactions if stored and handled as prescribed/indicated., No corrosive effect on metal. Not fire propagating.

#### 10.2 Chemical stability
These products are stable at room temperature in closed containers under normal storage and handling conditions.

#### 10.3 Possibility of hazardous reactions
Hazardous polymerization cannot occur

#### 10.4 Conditions to avoid
None known
10.5 Incompatible materials
Strong bases and acids

10.6 Hazardous decomposition products
Thermal oxidative decomposition can produce carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

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Section 11 - Toxicological Information

11.1 Information on toxicological effects:

**Acute Toxicity**
No data available

**Skin Corrosion/Irritation**
No data available

**Serious Eye Damage/Irritation**
No data available

**Respiratory/Skin Sensitization**
No data available

**Germ Cell Mutagenicity**
No data available

**Carcinogenicity**
No data available

**Reproductive Toxicity**
No data available

**Specific Target Organ Toxicity – Single Exposure**
No data available

**Specific Target Organ Toxicity – Repeated Exposure**
No data available

**Aspiration Hazard**
No data available

**Potential Health Effects – Miscellaneous**
No data available

---

Section 12 - Ecological Information

12.1 Toxicity
No data available

12.2 Persistence and Degradability
No data available

12.3 Bioaccumulative Potential
No data available
12.4 Mobility in Soil
No data available

12.5 Results of PBT and vPvB assessment
No data available

12.6 Other Adverse Effects
No data available

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**Section 13 - Disposal Considerations**

13.1 Waste treatment methods

**Product**
Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**
Dispose of as unused product.

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**Section 14 - Transport Information**

14.1 UN number: 2026

14.2 UN proper shipping name: Phenylmercuric compound, n.o.s.

14.3 Transport hazard class(es): 6.1: Toxic substance

14.4 Packing group: II

14.5 Environmental hazards: Marine pollutant, Y

14.6 Special precautions for user: none known

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable

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**Section 15 - Regulatory Information**

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

**Seveso III: Directive:**
Annex I Part 1 Section H1
Acute toxic Category 1, all exposure routes
Qualifying quantity for the application of
Lower-tier requirements: 5 t
Upper-tier requirements: 20 t

Annex I Part 1 Section: E1
Hazardous to the aquatic environment, Category Acute 1 or Chronic 1
Qualifying quantity for the application of
Lower-tier requirements: 100 t
Upper-tier requirements: 200 t
KEEP OUT OF REACH OF CHILDREN

WARNING: Known to the State of CA to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

15.2 Chemical safety assessment
No chemical safety assessment has been carried out for this substance/mixture by the supplier. This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16 - Other Information

Date Prepared: August 10, 2018
Revision: 3

Full text of H-Statements referred to under Sections 2 and 3.
H300 Fatal if swallowed.
H310 Fatal in contact with skin.
H330 Fatal if inhaled.
H373 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects

Abbreviations and acronyms:
ATE - Acute Toxicity Estimate; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006; EINECS - European Inventory of Existing Commercial Chemical Substances ELINCS - European List of Notified Chemical Substances; CAS# - Chemical Abstract Service number; PPE - Personal Protection Equipment; Kow - octanol-water partition coefficient; DNEL - Derived No Effect Level; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); NOEC - No Observed Effect Concentration; PNEC - Predicted No Effect Concentration; RMM - Risk Management Measure; OEL - Occupational Exposure Limit; PBT - Persistent, Bioaccumulative and Toxic; vPvB - Very Persistent and Very Bioaccumulative; STOT - Specific Target Organ Toxicity; CSA - Chemical Safety Assessment; EN - European Standard; UN - United Nations; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; WGK - Water Hazard Class

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