Safety Data Sheet

SOUDAL Soudafoam Door & Window Gun Grade

Section 1. Identification

Product Identifier
Soudal Soudafoam Door & Window Gun Grade

Synonyms
450800

Manufacturer Stock Numbers
79101TN10

Recommended use
Refer to Technical Information

Uses advised against
Refer to Technical Information

Manufacturer Contact
Address
Soudal Accumetric
350 Ring RD
Elizabethtown, KY, 42701
USA

Phone
(270) 769-3385

Emergency Phone
(800) 424-9300

Fax
(270) 765-2412

CHEMTREC

Section 2. Hazards Identification

Classification
ACUTE TOXICITY - DERMAL - Category 4
ACUTE TOXICITY - INHALATION - Category 4
ACUTE TOXICITY - ORAL - Category 4
CARCINOGENICITY - Category 2
EYE DAMAGE/IRRITATION - Category 2A
FLAMMABLE AEROSOLS - Category 1
SENSITIZATION - RESPIRATORY - Category 1A
SENSITIZATION - SKIN - Category 1
SKIN CORROSION/IRRITATION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure) - Category 2
SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3

Signal Word
Danger
Pictogram

Hazard Statements

Causes serious eye irritation
Causes skin irritation
Extremely flammable aerosol
Harmful if inhaled
Harmful if swallowed
Harmful in contact with skin
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May cause damage to organs through prolonged or repeated exposure (respiratory tract).
May cause respiratory irritation.
Suspected of causing cancer.

Precautionary Statements

Response

Call a poison center/doctor if you feel unwell.
Get medical advice/attention if you feel unwell.
If experiencing respiratory symptoms: Call a poison center/doctor.
If exposed or concerned: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
If on skin: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
If swallowed: Call a poison center/doctor if you feel unwell.
Read label before use. If medical advice is needed, have product container or label at hand.
Rinse mouth.
Wash contaminated clothing before reuse.

Prevention

Avoid breathing dust/fume/gas/mist/ vapors/spray.
Contaminated work clothing must not be allowed out of the workplace.
Do not eat, drink or smoke when using this product.
Do not handle until all safety precautions have been read and understood.
Do not spray on an open flame or other ignition source.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Obtain special instructions before use.
Pressurized container: Do not pierce or burn, even after use.
Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Wear respiratory protection.

Storage

Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Disposal
Dispose of contents/container to in accordance with local/regional/national/international regulations.

Ingredients of unknown toxicity
0%

Hazards not Otherwise Classified
Contains isocyanates. See information supplied by the manufacturer. Allergic sensitization may be possible with isocyanates. Persons already sensitized to diisocyanates may develop allergic reactions when using this product.

### Section 3. Ingredients

<table>
<thead>
<tr>
<th>CAS</th>
<th>Ingredient Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>6425-39-4</td>
<td>Morpholine, 4,4’-(oxydi-2,1-ethanediyl)bis-</td>
<td>&lt; 1 %</td>
</tr>
<tr>
<td>75-28-5</td>
<td>Isobutane</td>
<td>&lt; 10 %</td>
</tr>
<tr>
<td>9016-87-9</td>
<td>Polymeric diphenylmethane diisocyanate</td>
<td>&gt; 25 %</td>
</tr>
<tr>
<td></td>
<td>Copolymer</td>
<td>1% - 5%</td>
</tr>
<tr>
<td>74-98-6</td>
<td>Propane</td>
<td>1% - 5%</td>
</tr>
<tr>
<td>8001-20-5</td>
<td>Tung oil</td>
<td>10% - 15%</td>
</tr>
<tr>
<td>115-10-6</td>
<td>Dimethyl ether</td>
<td>10% - 15%</td>
</tr>
<tr>
<td>13674-84-5</td>
<td>Trichorylpropylene Phosphate</td>
<td>25% - 30%</td>
</tr>
</tbody>
</table>

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

### Section 4. First-Aid Measures

**Description of necessary measures**

**Inhalation**
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician. Specific treatment (see label). If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms:

**Skin**
IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment (see ... on this label). Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

**Eyes**
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.

**Ingestion**
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Indication of any immediate medical attention and special treatment needed**
Treat symptomatically and supportively. Persons already sensitized to diisocyanates may develop allergic reactions when using this product.
Most Important Symptoms/Effects

Acute
Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Delayed
May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure: respiratory tract.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media
Water, carbon dioxide

Unsuitable Extinguishing Media
None known

Special Hazards Arising from the Chemical
Extremely flammable aerosol.

Hazardous Combustion Products

Special Protective Equipment and Precautions for Firefighters
Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Do not spray on an open flame or other ignition sources. Do not pierce or burn, even after use. Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Fire Fighting Measures
Danger of explosion. Keep unnecessary people away, isolate hazard area and deny entry. Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. Do not allow to enter into surface water or drains.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures
Wear appropriate personal protective equipment recommended in Section 8 of the SDS. Do not smoke when using this product or handle near an open flame or sparks. Use explosion-proof electrical/ventilating/lighting equipment. Do not pierce or burn, even after use.

Methods and Materials for Containment and Cleaning Up
Do not allow to enter into surface water or drains. Dike for later disposal.

Environmental Precautions
Do not allow to enter into surface water or drains. Dike for later disposal.

Section 7. Handling and Storage

Precautions for Safe Handling
Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Do not spray on an open flame or other ignition sources. Do not pierce or burn, even after use. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves/clothing and eye/face protection. Take off contaminated clothing and wash before re-use. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. [In case of inadequate ventilation] wear respiratory protection. Obtain special instructions before use. Do not handle until all
safety precautions have been read and understood. Use explosion-proof electrical/ventilating/lighting equipment.

**Conditions for Safe Storage, Including any Incompatibilities**
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.
- Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
- Ensure adequate ventilation of the storage area. Maximum storage period (time): 1 year.

**Incompatible Materials**
- Heat, strong acids, strong bases, Amines. Keep away from all ignition sources.

## Section 8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Morpholine, 4,4’-(oxydi-2,1-ethanediyl)bis-</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Isobutane</td>
<td>1000 ppm</td>
<td>N/A</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Polymeric diphenylmethane diisocyanate</td>
<td>0.005 ppm</td>
<td>0.02 mg/m³</td>
<td>N/A</td>
</tr>
<tr>
<td>Coploymer</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Propane</td>
<td>1000 ppm TWA</td>
<td>1000 ppm PEL</td>
<td>N/A</td>
</tr>
<tr>
<td>Tung oil</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Dimethyl ether</td>
<td>N/A</td>
<td>400 ppm</td>
<td>N/A</td>
</tr>
<tr>
<td>Trichorylpropylene Phosphate</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Personal Protective Equipment**
- Goggles, Gloves

**Component Exposure Limits**

**Propane (74-98-6)**
- ACGIH: 1000 ppm TWA
- NIOSH: 1000 ppm TWA; 1800 mg/m³ TWA
- 2100 ppm IDLH (10% LEL)
- OSHA (US): 1000 ppm TWA; 1800 mg/m³ TWA

**Isobutane (75-28-5)**
- ACGIH: 1000 ppm STEL
- NIOSH: 800 ppm TWA; 1900 mg/m³ TWA

**Dimethyl ether (115-10-6)**
- Europe:
1000 ppm TWA; 1920 mg/m³ TWA

There are no biological limit values for any of this product's components.

**Engineering Controls**
- Use explosion-proof electrical/ventilating/lighting equipment. Keep away from heat/sparks/open flames/hot surfaces.

**Individual Protection Measures, such as Personal Protective Equipment**
- **Eye/face protection**
  - Wear splash resistant safety goggles.

- **Skin Protection**
  - Wear suitable protective clothing and gloves.

- **Respiratory Protection**
  - Use a respirator with an organic vapor cartridge for concentrations exceeding the occupational exposure limit.

**Glove Recommendations**
- Recommended material type: LOW DENSITY POLYETHYLENE

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### Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Aerosol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Champagne</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in organic solvents</td>
</tr>
<tr>
<td>Partition coefficient Water/n-octanol</td>
<td>Not available</td>
</tr>
<tr>
<td>VOC%</td>
<td>N/A</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.95</td>
</tr>
<tr>
<td>Density lbs/Gal</td>
<td>7.928</td>
</tr>
<tr>
<td>Pounds per Cubic Foot</td>
<td>59.307</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available</td>
</tr>
<tr>
<td>FP Method</td>
<td>N/A</td>
</tr>
<tr>
<td>Ph</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Range</td>
<td>Not available</td>
</tr>
<tr>
<td>LEL</td>
<td>N/A</td>
</tr>
<tr>
<td>UEL</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Note**
- The above information is not intended for use in preparing product
Section 10. Stability and Reactivity

Reactivity
May polymerize when heated.

Chemical Stability
Stable under normal conditions of use.

Possibility of Hazardous Reactions
May polymerize when heated.

Conditions to Avoid
Avoid contact with incompatible materials. Keep away from heat/sparks/open flame/hot surfaces - No smoking. Do not spray on an open flame or other ignition sources. Do not pierce or burn, even after use.

Incompatible Materials
Heat, strong acids, strong bases, Amines, Keep away from all ignition sources.

Hazardous decomposition products
Oxides of carbon, Phosphorus oxides, hydrogen cyanide, hydrogen chloride.

Section 11. Toxicological Information

Information on Likely Routes of Exposure
Inhalation
Harmful if inhaled. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Skin Contact
Harmful in contact with skin. Causes skin irritation. May cause allergic skin reaction.

Eye Contact
Causes serious eye damage.

Ingestion
Harmful if swallowed.

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:
2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)
Oral LD50 Rat 500 mg/kg
Dermal LD50 Rabbit 1230 mg/kg
Inhalation LC50 Rat 5 mg/L 4 h

Isocyanic acid, polymethylenepolypolyphenylene ester (9016-87-9)
Inhalation LC50 Rat 490 mg/m3 4 h

Propane (74-98-6)
Inhalation LC50 Rat 658 mg/L 4 h

Isobutane (75-28-5)
Inhalation LC50 Rat 658 mg/L 4 h

Dimethyl ether (115-10-6)
Inhalation LC50 Rat 308.5 mg/L 4 h
Acute and Chronic Toxicity

Immediate Effects
Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Delayed Effects
Suspected of causing cancer. May cause allergic skin reaction. May cause damage to organs through prolonged or repeated exposure: respiratory tract.

Irritation/Corrosivity Data
Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Respiratory Sensitization
May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

Dermal Sensitization
May cause allergic skin reaction.

Component
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)

Carcinogenicity
IARC:
Supplement 7 [1987]; Monograph 19 [1979](Group 3 (not classifiable))

DFG:
Category 4 (no significant contribution to human cancer)

Germ Cell Mutagenicity
No data available

Reproductive Toxicity
No data available

Specific Target Organ
Toxicity
Single Exposure: respiratory tract.
Repeated Exposure: respiratory tract.

Aspiration Hazard
No data available

Medical Conditions
Eye disorders, respiratory disorders, skin disorders, gastrointestinal disorders; May produce an allergic reaction. Persons already sensitized to diisocyanates may develop allergic reactions when using this product.

Section 12. Ecological Information

Component Analysis - Aquatic Toxicity
2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)
Fish:
LC50 96 h Brachydanio rerio 56.2 mg/L [static]; LC50 96 h Pimephales promelas 98 mg/L [static]; LC50 96 h Poecilia reticulata 30 mg/L [static]
Algae:
EC50 72 h Desmodesmus subspicatus 45 mg/L IUCLID; EC50 96 h Pseudokirchneriella subcapitata 4 mg/L IUCLID
Invertebrate:
EC50 48 h Daphnia magna 63 mg/L IUCLID

Bioaccumulation
No information available.

Mobility
No information available.

Biodegradation
Contains non readily biodegradable component(s).

Section 13. Disposal

Disposal Methods
Dispose of contents/container in accordance with local/regional/national/international regulations. Do not allow to enter into ground-water, surface water or drains.

Section 14. Transport Information
UN Number 1950
UN Proper Shipping Name Aerosols
DOT Classification Hazard Class: 2.2 Required Label(s): 2.2
Packing Group None assigned

Section 15. Regulatory Information

U.S. Federal Regulations This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.
Isocyanic acid, polymethylene polyphenylene ester (9016-87-9)
SARA 313: 1 % de minimis concentration
SARA Section 311/312 (40 CFR 370 Subparts B and C)
Acute Health: Yes Chronic Health: Yes Fire: Yes Pressure: Yes Reactivity: Yes

U.S. State Regulations The following components appear on one or more of the following state hazardous substances lists:
Isocyanic acid, polymethylene polyphenylene ester (9016-87-9)
NJ
Propane (74-98-6)
MA, MN, NJ, PA
Isobutane (75-28-5)
MA, NJ, PA
Dimethyl ether (15-10-6)
MA, MN, NJ, PA

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 SDSs 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:
Castor oil (8001-79-4) 1 %

WHMS Classification B5, D2A, D2B

Section 16. Other Information

Revision Date 3/17/2016
HMIS and NFPA Rating HMIS
Health: 2*
Fire: 3
Reactivity: 3
NFPA
Health: 2
Fire: 3
Reactivity: 3
Hazard Scale:
0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe
* = Chronic hazard

Disclaimer
The data contained herein is based upon information that Soudal Accumetric believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.