Safety Data Sheet

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
xxx

Product Use
polyurethane foam sealant

Restrictions on Use
None known.

Manufacturer Information
SOUDAL ACCUMETRIC
350 Ring Road,
Elizabethtown, KY 42701
Phone: 1-877-873-8739
Emergency Phone #: +1 800 424 9300
E-mail: info@soudalusa.com

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.
Flammable Aerosols - Category 1
Acute Toxicity - Oral - Category 4
Acute Toxicity - Dermal - Category 4
Acute Toxicity - Inhalation - Vapor - Category 4
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 2A
Respiratory Sensitization - Category 1A
Skin Sensitization - Category 1
Carcinogenicity - Category 2
Specific Target Organ Toxicity - Single Exposure - Category 3 (respiratory tract)
Specific Target Organ Toxicity - Repeated Exposure - Category 2 (respiratory tract)

GHS Label Elements

Symbol(s)

Signal Word
Danger
Safety Data Sheet

Material Name: Soudal xxx

Hazard Statement(s)
Extremely flammable aerosol
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 allergic skin reaction
Suspected of causing cancer
May cause respiratory irritation
May cause damage to organs through prolonged or repeated exposure

Precautionary Statement(s)

Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Keep away from heat/sparks/open flame/hot surfaces - No smoking
Pressurized container: Do not pierce or burn, even after use
Do not spray on an open flame or other ignition sources
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection

Response
IF exposed or concerned: Get medical advice/attention
IF INHALED: Remove person to fresh air and keep comfortable for breathing
If experiencing respiratory symptoms: Call a POISON CENTER/doctor
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Rinse mouth
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
Store locked up
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations
Other Hazards
Contains isocyanates. See information supplied by the manufacturer. Allergic sensitization may be possible. Persons already sensitized to diisocyanates may develop allergic reactions when using this product.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>9016-87-9</td>
<td>Isocyanic acid, polymethylenepolyphenylene ester</td>
<td>&gt;25</td>
</tr>
<tr>
<td>13674-84-5</td>
<td>2-Propanol, 1-chloro-, phosphate (3:1)</td>
<td>&lt;25</td>
</tr>
<tr>
<td>63449-39-8</td>
<td>Chlorinated paraffin waxes and hydrocarbon waxes</td>
<td>&lt;25</td>
</tr>
<tr>
<td>75-28-5</td>
<td>Isobutane</td>
<td>&lt;20</td>
</tr>
<tr>
<td>74-98-6</td>
<td>Propane</td>
<td>&lt;10</td>
</tr>
</tbody>
</table>

Section 4 - FIRST AID MEASURES

Description of Necessary Measures
IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician. Get medical advice/attention if you feel unwell.

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.

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 label). Take off contaminated clothing and wash 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 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. Causes serious eye irritation. May cause damage to organs. Causes skin irritation.

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

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media
water, carbon dioxide

Unsuitable Extinguishing Media
None known.

Special Hazards Arising from the Chemical
Extremely flammable aerosol.

Hazardous Combustion Products
Oxides of carbon, Phosphorus oxides, hydrogen cyanide, hydrogen chloride, May polymerize when heated.

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 MSDS. Do not smoke when using this product or handle near an open flame or sparks. Use explosion-proof electrical/ventilating/lighting equipment.

Methods and Materials for Containment and Cleaning Up
Do not pierce or burn, even after use.

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 it before reuse. 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

Component Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>Isobutane (ppm)</th>
<th>ACGIH</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>75-28-5</td>
<td>1000</td>
<td>800 ppmTWA; 1900 mg/m3TWA</td>
</tr>
<tr>
<td></td>
<td>ACGIH:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>74-98-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isobutane</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH:</td>
<td>1000 ppm STEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NIOSH:</td>
<td>800 ppmTWA; 1900 mg/m3TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH:</td>
<td>1000 ppm TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NIOSH:</td>
<td>1000 ppmTWA; 1800 mg/m3TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA (US):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2100 ppmIDLH (10% LEL)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biological limit value</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>There are no biological limit values for any of this product's components.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

---

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>characteristic odor</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Melting Point</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Freezing point</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Boiling Point Range</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Autoignition</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Lower Explosive Limit</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Upper Explosive Limit</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Vapor Density (air=1)</strong></td>
<td>(&gt;1)</td>
</tr>
<tr>
<td><strong>Water Solubility</strong></td>
<td>Insoluble. Organic solvent : Soluble</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Bulk Density</strong></td>
<td>(No data available)</td>
</tr>
<tr>
<td><strong>Log KOW</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>VOC</strong></td>
<td>26%</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Physical Form</strong></td>
<td>aerosol</td>
</tr>
<tr>
<td><strong>Volatility</strong></td>
<td>No data available</td>
</tr>
</tbody>
</table>
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 flames/hot surfaces. 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
Thermal decomposition products
Oxides of carbon, oxides of phosphorus, hydrogen cyanide, hydrogen chloride

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation
May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

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

Eye Contact
Causes serious eye irritation.

Ingestion
Harmful if swallowed.

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:
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)
Inhalation LC50Rat 490 mg/m3 4 h
2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)
Safety Data Sheet

Material Name: Soudal xxx

Oral LD50 Rat 500 mg/kg
Dermal LD50 Rabbit 1230 mg/kg
Inhalation LC50 Rat 5 mg/L 4 h
Isobutane (75-28-5)
Inhalation LC50 Rat 658 mg/L 4 h
Propane (74-98-6)
Inhalation LC50 Rat 658 mg/L 4 h

Immediate Effects
Harmful in contact with skin. Causes serious eye irritation. Harmful if swallowed. May cause damage to organs. Causes skin irritation.

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

Irritation/Corrosivity Data
Causes serious eye irritation. Causes skin irritation.

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

Dermal Sensitization
May cause allergic skin reaction.

Component Carcinogenicity

<table>
<thead>
<tr>
<th>Component</th>
<th>IARC</th>
<th>DFG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isocyanic acid, polymethylene-polyphenylene ester</td>
<td>Supplement 7 [1987]; Monograph 19 [1979](Group 3 (not classifiable))</td>
<td>Category 4 (no significant contribution to human cancer)</td>
</tr>
<tr>
<td>Chlorinated paraffin waxes and hydrocarbon waxes</td>
<td>Monograph 48 [1990](Group 2B (possibly carcinogenic to humans))</td>
<td>Category 3B (could be carcinogenic for man)</td>
</tr>
</tbody>
</table>

Germ Cell Mutagenicity
No data available.

Reproductive Toxicity
No data available.

Specific Target Organ Toxicity - Single Exposure
heart.
Specific Target Organ Toxicity - Repeated Exposure
respiratory system.

Aspiration hazard
No data available.

Medical Conditions Aggravated by Exposure
eye disorders, respiratory disorders, heart disorders, skin disorders and allergies. 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

<table>
<thead>
<tr>
<th>Component</th>
<th>Aquatic Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1-chloropropyl phosphate (3:1)</td>
<td>13674-84-5</td>
</tr>
<tr>
<td>Fish:</td>
<td>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]</td>
</tr>
<tr>
<td>Algae:</td>
<td>EC50 72 h Desmodesmus subspicatus 45 mg/L IUCLID; EC50 96 h Pseudokirchneriella subcapitata 4 mg/L IUCLID</td>
</tr>
<tr>
<td>Invertebrate:</td>
<td>EC50 48 h Daphnia magna 63 mg/L IUCLID</td>
</tr>
<tr>
<td>Chlorinated paraffin waxes and hydrocarbon waxes</td>
<td>63449-39-8</td>
</tr>
<tr>
<td>Fish:</td>
<td>LC50 96 h Lepomis macrochirus &gt;300 mg/L [static]; LC50 96 h Oncorhynchus mykiss &gt;0.0109 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 94.5 - 271 mg/L [static]; LC50 96 h Lepomis macrochirus &gt;0.1 mg/L [flow-through]; LC50 96 h Pimephales promelas &gt;100 mg/L [static]</td>
</tr>
</tbody>
</table>

Section 13 - DISPOSAL CONSIDERATIONS

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

US DOT Information:
Shipping Name: AEROSOLS
Hazard Class: 2.1
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.

<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>Isocyanic acid, polymethylenepolyphenylene ester</td>
<td>9016-87-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SARA 313:</td>
<td>1 % de minimis concentration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SARA Section 311/312 (40 CFR 370 Subparts B and C)</td>
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<td></td>
<td></td>
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<tr>
<td>Acute Health:</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chronic Health:</td>
<td>Yes</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Fire:</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Pressure:</td>
<td>Yes</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Reactivity:</td>
<td>Yes</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

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>
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<tbody>
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<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Not listed under California Proposition 65

Canadian WHMIS Ingredient Disclosure List (IDL)
The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

WHMIS Classification
B5, D2A, D2B

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

|----|----|----|----|----|-----------|-----------|---------------|-----------|----|----|----|
## Section 16 - OTHER INFORMATION

### HMIS Rating

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

### NFPA Ratings

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

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

Disclaimer:
Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.