SAFETY DATA SHEET
FOR INDUSTRIAL USE ONLY

SS4004P

Section 1. Product and company identification

<table>
<thead>
<tr>
<th>Product name</th>
<th>SS4004P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical name</td>
<td>Not available</td>
</tr>
<tr>
<td>Manufacturer/Importer/Distributor Information</td>
<td>Momentive Amer Seal. 260 Hudson River Road Waterford NY 12188</td>
</tr>
<tr>
<td>Contact person</td>
<td><a href="mailto:4information@momentive.com">4information@momentive.com</a></td>
</tr>
<tr>
<td>Telephone</td>
<td>General information +1-800-295-2392</td>
</tr>
</tbody>
</table>

Section 2. Hazards identification

| Classification of the substance or mixture | FLAMMABLE LIQUIDS - Category 2 |
|                                            | SKIN CORROSION/IRRITATION - Category 2 |
|                                            | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A |
|                                            | TOXIC TO REPRODUCTION - Category 1B |
|                                            | TOXIC TO REPRODUCTION - Category 1B |
|                                            | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 |
|                                            | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] - Category 3 |
|                                            | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 |

GHS label elements

<table>
<thead>
<tr>
<th>Hazard pictograms</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal word</td>
<td>Danger</td>
</tr>
<tr>
<td>Hazard statements</td>
<td>H225</td>
</tr>
<tr>
<td></td>
<td>H315</td>
</tr>
<tr>
<td></td>
<td>H319</td>
</tr>
<tr>
<td></td>
<td>H360F</td>
</tr>
<tr>
<td></td>
<td>H360</td>
</tr>
<tr>
<td></td>
<td>H370</td>
</tr>
<tr>
<td></td>
<td>H336</td>
</tr>
</tbody>
</table>
H372 Causes damage to organs through prolonged or repeated exposure: (central nervous system (CNS), kidneys, liver, skin, respiratory tract, ears)

Precautionary statements

General: Not applicable.

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Response: Get medical attention if you feel unwell. IF exposed: Call a POISON CENTER or physician.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation occurs: Get medical attention.

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 attention.


Disposal: P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not result in classification: None known.

Section 3. Composition/information on ingredients
Substance/mixture : Mixture
Chemical name : Not available

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>% by weight</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>10 - 30</td>
<td>67-64-1</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>10 - 30</td>
<td>67-63-0</td>
</tr>
<tr>
<td>Xylene</td>
<td>10 - 30</td>
<td>1330-20-7</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>5 - 10</td>
<td>100-41-4</td>
</tr>
<tr>
<td>Silicic acid (H4SiO4), tetraethyl ester</td>
<td>1 - 5</td>
<td>78-10-4</td>
</tr>
<tr>
<td>1-Butanol</td>
<td>1 - 5</td>
<td>71-36-3</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures

**Eye contact**
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.

**Inhalation**
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact**
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion**
Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician**
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**
No specific treatment.
Protection of first aid personnel: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

**Section 5. Fire-fighting measures**

**Extinguishing media**

Suitable extinguishing media: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing media: Do not use water jet.

Specific hazards arising from the chemical: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, metal oxide/oxides. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

**Section 6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil.
waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13 of SDS). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see section 8 of SDS). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
## Section 8. Exposure controls/personal protection

### Control parameters

### Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
</table>
| **Acetone**     | OSHA PEL 1989 Vacated (1989-03-01)  
Time Weighted Average (TWA) 1,800 mg/m³  750 ppm  
Pollutant concentration that should not be exceeded during working hours and which workers are believed to be exposed during a period of 15 minutes maximum, without experiencing:  
a) irritation. b) chronic or irreversible tissue damage. c) dependent toxic effects of exposure rate. d) Narcosis of sufficient magnitude to increase susceptibility to accidents. e) The reduction of ability to get to safety by their own means.  
2,400 mg/m³  1,000 ppm  
OSHA PEL (1993-06-30)  
Time Weighted Average (TWA) 2,400 mg/m³  1,000 ppm  
NIOSH REL (1994-06-01)  
Time Weighted Average (TWA) 590 mg/m³  250 ppm  
ACGIH TLV (1997-05-21)  
Time Weighted Average (TWA) 1,188 mg/m³  500 ppm  
Short Term Exposure Limit (STEL) 1,782 mg/m³  750 ppm |
| **Isopropanol** | OSHA PEL 1989 Vacated (1989-03-01)  
Time Weighted Average (TWA) 980 mg/m³  400 ppm  
Pollutant concentration that should not be exceeded during working hours and which workers are believed to be exposed during a period of 15 minutes maximum, without experiencing:  
a) irritation. b) chronic or irreversible tissue damage. c) dependent toxic effects of exposure rate. d) Narcosis of sufficient magnitude to increase susceptibility to accidents. e) The reduction of ability to get to safety by their own means.  
1,225 mg/m³  500 ppm  
OSHA PEL (1993-06-30)  
Time Weighted Average (TWA) 980 mg/m³  400 ppm  
NIOSH REL (1994-06-01)  
Time Weighted Average (TWA) 980 mg/m³  400 ppm  
Pollutant concentration that should not be exceeded during working hours and which workers are believed to be exposed during a period of 15 minutes maximum, without experiencing:  
a) irritation. b) chronic or irreversible tissue damage. c) dependent toxic effects of exposure rate. d) Narcosis of sufficient magnitude to increase susceptibility to accidents. e) The reduction of ability to get to safety by their own means.  
1,225 mg/m³  500 ppm  
ACGIH TLV (2003-01-01)  
Time Weighted Average (TWA) 200 ppm  
Short Term Exposure Limit (STEL) 400 ppm |
| **Xylene**      | NIOSH REL (2005-09-30)  
OSHA PEL (1993-06-30)  
Time Weighted Average (TWA) 435 mg/m³  100 ppm  
OSHA PEL 1989 Vacated (1989-03-01)  
Time Weighted Average (TWA) 435 mg/m³  100 ppm  
Pollutant concentration that should not be exceeded during |
working hours and which workers are believed to be exposed during a period of 15 minutes maximum, without experiencing:
- a) irritation.
- b) chronic or irreversible tissue damage.
- c) dependent toxic effects of exposure rate.
- d) Narcosis of sufficient magnitude to increase susceptibility to accidents.
- e) The reduction of ability to get to safety by their own means.

**ACGIH TLV (1996-05-18)**
- Time Weighted Average (TWA) 655 mg/m³ 150 ppm

**Ethylbenzene**
- OSHA PEL 1989 Vacated (1989-03-01)
- Time Weighted Average (TWA) 434 mg/m³ 100 ppm
- Pollutant concentration that should not be exceeded during working hours and which workers are believed to be exposed during a period of 15 minutes maximum, without experiencing:
  - a) irritation.
  - b) chronic or irreversible tissue damage.
  - c) dependent toxic effects of exposure rate.
  - d) Narcosis of sufficient magnitude to increase susceptibility to accidents.
  - e) The reduction of ability to get to safety by their own means.

**OSHA PEL (1993-06-30)**
- Time Weighted Average (TWA) 435 mg/m³ 100 ppm

**NIOSH REL (1994-06-01)**
- Time Weighted Average (TWA) 435 mg/m³ 100 ppm

**ACGIH TLV (2010-12-06)**
- Time Weighted Average (TWA) 20 ppm

**Silicic acid (H₄SiO₄), tetraethyl ester**
- OSHA PEL 1989 Vacated (1989-03-01)
- Time Weighted Average (TWA) 85 mg/m³ 10 ppm

**OSHA PEL (1993-06-30)**
- Time Weighted Average (TWA) 850 mg/m³ 100 ppm

**NIOSH REL (1994-06-01)**
- Time Weighted Average (TWA) 85 mg/m³ 10 ppm

**ACGIH TLV (1994-09-01)**
- Time Weighted Average (TWA) 85 mg/m³ 10 ppm

**1-Butanol**
- OSHA PEL 1989 Vacated (1989-03-01)
  - Ceiling 150 mg/m³ 50 ppm

**OSHA PEL (1993-06-30)**
  - Ceiling 150 mg/m³ 50 ppm

**NIOSH REL (1994-06-01)**
  - Ceiling 150 mg/m³ 50 ppm

**ACGIH TLV (2002-01-01)**
  - Time Weighted Average (TWA) 20 ppm

**Appropriate engineering controls**:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product., When there is a risk of ignition from static electricity, wear anti-static protective clothing., For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance
**Section 10. Stability and reactivity**

Reactivity : Stable under normal conditions.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials.
Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Conclusion/Summary : Not determined

Irritation/Corrosion

Conclusion/Summary
Skin : Not determined
eyes : Not determined
Respiratory : Not determined

Sensitization

Conclusion/Summary
Skin : Not determined
Respiratory : Not determined

Mutagenicity

Conclusion/Summary : Not determined

Carcinogenicity

Conclusion/Summary : Not determined

Reproductive toxicity

Conclusion/Summary : Not determined

Teratogenicity

Conclusion/Summary : Not determined

Specific target organ toxicity (single exposure)

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>Category 3</td>
<td></td>
<td>Respiratory tract irritation Narcotic effects</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>Category 3</td>
<td></td>
<td>Narcotic effects Respiratory tract irritation central nervous system (CNS) kidneys</td>
</tr>
<tr>
<td></td>
<td>Category 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Xylene</td>
<td>Category 3</td>
<td></td>
<td>Respiratory tract irritation Narcotic effects liver kidneys central nervous system (CNS)</td>
</tr>
<tr>
<td></td>
<td>Category 1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Silicic acid (H₄SiO₄), tetraethyl ester | Category 3 | Respiratory tract irritation
---|---|---
1-Butanol | Category 3 | Narcotic effects, Respiratory tract irritation

**Specific target organ toxicity (repeated exposure)**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>Category 1</td>
<td></td>
<td>skin, liver, central nervous system (CNS), kidneys</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>Category 2</td>
<td></td>
<td>liver</td>
</tr>
<tr>
<td>Xylene</td>
<td>Category 1</td>
<td></td>
<td>central nervous system (CNS), respiratory tract</td>
</tr>
<tr>
<td>1-Butanol</td>
<td>Category 1</td>
<td></td>
<td>ears, central nervous system (CNS)</td>
</tr>
</tbody>
</table>

**Aspiration hazard**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>ASPIRATION HAZARD - Category 1</td>
</tr>
</tbody>
</table>

**Information on the likely routes of exposure**

- **Eye contact**: Causes serious eye irritation.
- **Inhalation**: Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.
- **Skin contact**: Causes skin irritation.
- **Ingestion**: Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.

**Symptoms related to the physical, chemical and toxicological characteristics**

- **Eye contact**: Adverse symptoms may include the following:
  - pain or irritation
  - watering
  - redness

- **Inhalation**: Adverse symptoms may include the following:
  - nausea or vomiting
  - headache
  - drowsiness/fatigue
  - dizziness/vertigo
  - unconsciousness
  - reduced fetal weight
  - increase in fetal deaths
  - skeletal malformations

- **Skin contact**: Adverse symptoms may include the following:
  - irritation
  - redness

**Version**: 1.3  **Date of issue/Date of revision**: 05/01/2015  **Date of previous issue**: 04/10/2015
Ingestion: Adverse symptoms may include the following:
- reduced fetal weight
- increase in fetal deaths
- skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: Not available
Potential delayed effects: Not available

Long term exposure

Potential immediate effects: Not available
Potential delayed effects: Not available

Potential chronic health effects

Conclusion/Summary: Not determined

General: Causes damage to organs through prolonged or repeated exposure:
- Carcinogenicity: No known significant effects or critical hazards.
- Mutagenicity: No known significant effects or critical hazards.
- Teratogenicity: May damage the unborn child.
- Developmental effects: No known significant effects or critical hazards.
- Fertility effects: May damage fertility.

Numerical measures of toxicity

Acute toxicity estimates

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>29,790.3 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>5,640.5 mg/kg</td>
</tr>
<tr>
<td>Inhalation (vapors)</td>
<td>137 mg/l</td>
</tr>
</tbody>
</table>

Section 12. Ecological information

Ecotoxicity

Conclusion/Summary: Not available

Persistence/degradability

Conclusion/Summary: Not available
Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Species</th>
<th>Exposure</th>
<th>LogPow</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td></td>
<td>-0.23</td>
<td>-</td>
<td>low</td>
<td></td>
</tr>
<tr>
<td>Isopropanol</td>
<td></td>
<td>0.07</td>
<td>-</td>
<td>low</td>
<td></td>
</tr>
<tr>
<td>Xylene</td>
<td></td>
<td>3.15</td>
<td>-</td>
<td>low</td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td></td>
<td>3.6</td>
<td>-</td>
<td>low</td>
<td></td>
</tr>
<tr>
<td>1-Butanol</td>
<td></td>
<td>1</td>
<td>-</td>
<td>low</td>
<td></td>
</tr>
</tbody>
</table>

Mobility in soil

Soil/water partition coefficient (KOC): Not available
Other adverse effects: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. See Section 8 for information on appropriate personal protective equipment.

Section 14. Transport information

DOT SHIPPING NAME: Flammable liquids, n.o.s. (acetone, Isopropyl alcohol)
DOT HAZARD CLASS: 3
DOT LABEL (S): 3
UN/NA NUMBER: UN1993
PACKING GROUP: II

IMDG SHIPPING NAME: Flammable liquids, n.o.s. (acetone, Isopropyl alcohol)
CLASS: 3
IMDG-Labels: 3
UN NUMBER: UN1993
PACKING GROUP: II
EmS No.: F-E; S-E
IATA: Flammable liquids, n.o.s. (acetone, Isopropyl alcohol)
CLASS: 3
ICAO-Labels: 3
UN NUMBER: UN1993
PACKING GROUP: II

**Special precautions for user**: Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## 15. Regulatory information

### United States

**U.S. Federal regulations**:
- **United States - TSCA 12(b) - Chemical export notification**: None required.
- **United States - TSCA 5(a)2 - Final significant new use rules**: Not listed
- **United States - TSCA 5(a)2 - Proposed significant new use rules**: Not listed
- **United States - TSCA 5(e) - Substances consent order**: Not listed

### SARA 311/312

**Classification**:
- Fire hazard
  - Immediate (acute) health hazard
  - Delayed (chronic) health hazard

### SARA 313

<table>
<thead>
<tr>
<th>Product name</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol</td>
<td>67-63-0</td>
</tr>
<tr>
<td>Benzene, dimethyl-</td>
<td>1330-20-7</td>
</tr>
<tr>
<td>Benzene, ethyl-</td>
<td>100-41-4</td>
</tr>
<tr>
<td>1-Butanol</td>
<td>71-36-3</td>
</tr>
</tbody>
</table>

**Form R - Reporting requirements**:
- 2-Propanol: 67-63-0
- Benzene, dimethyl-: 1330-20-7
- Benzene, ethyl-: 100-41-4
- 1-Butanol: 71-36-3

**Supplier notification**:
- 2-Propanol: 67-63-0
- Benzene, dimethyl-: 1330-20-7
- Benzene, ethyl-: 100-41-4
- 1-Butanol: 71-36-3

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

**California Prop. 65**: WARNING: This product contains a chemical known to the State of California to cause cancer., WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

**Canada**
WHMIS (Canada) : Class B-2: Flammable liquid
Class D-2A: Material causing other toxic effects (Very toxic).
Class D-2B: Material causing other toxic effects (Toxic).

International regulations

International lists : Australia inventory (AICS): All components are listed or exempted.
Canada inventory: All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand inventory (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.
United States inventory (TSCA 8b): All components are listed or exempted.
Japan inventory: All components are listed or exempted.
Taiwan inventory (CSNN): All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System III (U.S.A.) :

<table>
<thead>
<tr>
<th>Health</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>2</td>
</tr>
<tr>
<td>Physical hazards</td>
<td>3</td>
</tr>
</tbody>
</table>

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

Full text of abbreviated H statements : Not applicable.

History

Date of printing : 05/19/2015
Date of issue/Date of revision : 05/01/2015
Date of previous issue : 04/10/2015
Version : 1.3
Prepared by : Product Safety Stewardship
Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
UN = United Nations

References : Not available

Notice to reader

Unless otherwise specified in section 1, Momentive Products are intended for industrial application only. They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.
Keep out of the reach of children.

**Further Information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.