SECTION 1. IDENTIFICATION

Product name: SUPRASEC® 9704 (STI-03-0.30-9A SealGuard II A)

Manufacturer or supplier’s details

Company name of supplier: Huntsman Polyurethanes
Address: P.O. Box 4980
The Woodlands, TX 77387
United States of America (USA)
Telephone: Tech Info:(800) 257-5547
E-mail address of person responsible for the SDS: MSDS@huntsman.com
Emergency telephone number: Chemtrec: (800) 424-9300 or (703) 527-3887

Recommended use of the chemical and restrictions on use

Recommended use: Component of a Polyurethane System.
Restrictions on use: For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Inhalation): Category 4
Skin irritation: Category 2
Eye irritation: Category 2B
Respiratory sensitisation: Category 1
Skin sensitisation: Category 1
Specific target organ toxicity - single exposure: Category 3 (Respiratory system)

GHS label elements

Hazard pictograms:

Signal word: Danger
Hazard statements: H315 + H320 Causes skin and eye irritation. H317 May cause an allergic skin reaction. H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.

Precautionary statements:

**Prevention:**
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ 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.
- P285 In case of inadequate ventilation wear respiratory protection.

**Response:**
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
- P362 Take off contaminated clothing and wash before reuse.

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

**Disposal:**
- P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards
None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Substance / Mixture</th>
<th>Substance</th>
</tr>
</thead>
</table>

**Hazardous components**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diphenylmethane diisocyanate</td>
<td>9016-87-9</td>
<td>50 - 70</td>
</tr>
<tr>
<td>4,4’-methylene diphenyl diisocyanate</td>
<td>101-68-8</td>
<td>30 - 50</td>
</tr>
</tbody>
</table>

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

**SECTION 4. FIRST AID MEASURES**
SAFETY DATA SHEET

SUPRASEC® 9704 (STI-03-0.30-9A SealGuard II A)

General advice: Move out of dangerous area. Do not leave the victim unattended. Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. Call a physician or poison control centre immediately. Keep patient warm and at rest. Keep respiratory tract clear. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. If unconscious, place in recovery position and seek medical advice. Consult a physician immediately if symptoms such as shortness of breath or asthma are observed. A hyper-reactive response to even minimal concentrations of diisocyanates may develop in sensitised persons. LC50 (rat): ca. 490 mg/m³ (4 hours) using experimentally produced respirable aerosol having aerodynamic diameter <5microns.

In case of skin contact: In case of contact, immediately flush skin with soap and plenty of water. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse. Call a physician if irritation develops or persists. An MDI study has demonstrated that a polyglycol-based skin cleanser (such as D-TamTM, PEG-400) or corn oil may be more effective than soap and water.

In case of eye contact: In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed: Gently wipe or rinse the inside of the mouth with water. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Keep respiratory tract clear. Keep at rest. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed: Severe allergic skin reactions, bronchospasm and anaphylactic shock

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.
It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If potential for exposure exists refer to Section 8 for specific personal protective equipment. First Aid responders should pay attention to self-protection and use the recommended protective clothing.

**Notes to physician**: Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours. The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

### SECTION 5. FIREFIGHTING MEASURES

**Suitable extinguishing media**: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Foam
- Carbon dioxide (CO2)
- Dry powder

**Unsuitable extinguishing media**: High volume water jet

**Specific hazards during firefighting**: Do not allow run-off from fire fighting to enter drains or water courses. The pressure in sealed containers can increase under the influence of heat. Exposure to decomposition products may be a hazard to health.

**Hazardous combustion products**: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
- Nitrogen oxides (NOx)
- Hydrogen cyanide (hydrocyanic acid)

**Specific extinguishing methods**: Cool containers/tanks with water spray.

**Further information**: Standard procedure for chemical fires. Due to reaction with water producing CO2-gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters:
Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Use personal protective equipment.
Immediately evacuate personnel to safe areas.
Ensure adequate ventilation.
Keep people away from and upwind of spill/leak.
Only qualified personnel equipped with suitable protective equipment may intervene.
Never return spills in original containers for re-use.
Treat recovered material as described in the section “Disposal considerations”.
For disposal considerations see section 13.
Make sure that there is a sufficient amount of neutralizing/absorbent material near the storage area.
The danger areas must be delimited and identified using relevant warning and safety signs.

Environmental precautions:
Do not allow uncontrolled discharge of product into the environment.
Do not allow material to contaminate ground water system.
Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
Local authorities should be advised if significant spillages cannot be contained.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up:
Clean-up methods - small spillage:
Dilute with plenty of water.
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Clean contaminated surface thoroughly.
Sweep up or vacuum up spillage and collect in suitable container for disposal.
Neutralize small spillages with decontaminant.
The compositions of liquid decontaminants are given in Section 16.
Remove and dispose of residues.
Clean-up methods - large spillage:
If the product is in its solid form:
Spilled MDI flakes should be picked up carefully.
The area should be vacuum cleaned to remove remaining dust particles completely.
If the product is in its liquid form:
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Leave to react for at least 30 minutes.
Shovel into open-top drums for further decontamination.
Wash the spillage area with water.
Test atmosphere for MDI vapour.
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Technical measures : Ensure that eyewash stations and safety showers are close to the workstation location.

Local/Total ventilation : Use only with adequate ventilation.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.
Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Recommended storage temperature : 20 - 25 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-methylene diphenyl diisocyanate</td>
<td>101-68-8</td>
<td>TWA</td>
<td>0.005 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C</td>
<td>0.02 ppm 0.2 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
</tbody>
</table>

Personal protective equipment

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.

**Hand protection**

**Remarks**: For prolonged or repeated contact use protective gloves. Protective gloves should be worn when handling freshly made polyurethane products to avoid contact with trace residual materials which may be hazardous in contact with skin.

Use chemical resistant gloves classified under Standard EN374: protective gloves against chemicals and microorganisms. Examples of glove materials that might provide suitable protection include: Butyl rubber, Chlorinated polyethylene, Polyethylene, Ethyl vinyl alcohol copolymers laminated ("EVAL"), Polychloroprene (Neoprene*), Nitrile/butadiene rubber ("nitrile" or "NBR"), Polyvinyl chloride ("PVC" or "vinyl"), Fluoroelastomer (Viton*).

When prolonged or frequently repeated contact may occur, a glove with protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN374) is recommended.

When only brief contact is expected, a glove with protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN374) is recommended. Contaminated gloves should be decontaminated and disposed of.

Notice: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all requisite workplace factors such as, but not limited to: other chemicals that may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), as well as instructions/specifications provided by the glove supplier.

**Eye 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 or dusts. Chemical splash goggles. Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded. Please follow all applicable local/national requirements when selecting protective measures for a specific workplace. Ensure that eyewash stations and safety showers are close to the workstation location.

**Skin and body protection**

: Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Protective measures**

: Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Ensure that eye flushing systems and safety showers are located close to the working place.

Hygiene measures:
- Handle in accordance with good industrial hygiene and safety practice.
- Wash face, hands and any exposed skin thoroughly after handling.
- Remove contaminated clothing and protective equipment before entering eating areas.
- When using do not eat or drink.
- When using do not smoke.
- Contaminated work clothing should not be allowed out of the workplace.
- Wash hands and face before breaks and immediately after handling the product.
- Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance**: liquid
- **Colour**: brown, clear
- **Odour**: slight, musty
- **Odour Threshold**: No data is available on the product itself.
- **pH**: No data is available on the product itself.
- **Freezing point**: No data is available on the product itself.
- **Melting point**: No data is available on the product itself.
- **Boiling point**: No data is available on the product itself.
- **Flash point**: > 150 °C
  - Method: closed cup
- **Evaporation rate**: No data is available on the product itself.
- **Flammability (solid, gas)**: No data is available on the product itself.
- **Flammability (liquids)**: No data is available on the product itself.
- **Upper explosion limit**: No data is available on the product itself.
- **Lower explosion limit**: No data is available on the product itself.
- **Vapour pressure**: < 0.00001 hPa (20 °C)
- **Relative vapour density**: No data is available on the product itself.
Relative density : 1.23

Density : 1.23 g/cm³ (20 °C)
Method: estimated

Solubility(ies)
Water solubility : Decomposes in contact with water. (20 °C)
Method: Information given is based on data obtained from similar substances.

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-octanol/water : No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

Thermal decomposition : No data is available on the product itself.

Self-Accelerating decomposition temperature (SADT) : No data is available on the product itself.

Viscosity
Viscosity, dynamic : 200 mPa.s (25 °C)

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

Particle size : No data is available on the product itself.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Reaction with water (moisture) produces CO₂-gas.
Exothermic reaction with materials containing active hydrogen groups.
The reaction becomes progressively more vigorous and can be violent at higher temperatures if the miscibility of the reaction partners is good or is supported by stirring or by the presence of solvents.
MDI is insoluble with, and heavier than water and sinks to the bottom but reacts slowly at the interface.
A solid water-insoluble layer of polyurea is formed at the interface by liberating carbon dioxide gas.

Conditions to avoid : Extremes of temperature and direct sunlight.
Exposure to air or moisture over prolonged periods.

Incompatible materials : Acids
Amines
Bases
Hazardous decomposition products:
- Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.
- Hydrocarbons
- Hydrogen cyanide (hydrocyanic acid)
- Burning produces noxious and toxic fumes.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:
- No data is available on the product itself.

**Acute toxicity**

Acute oral toxicity - Product:
- LD50 (Rat, male): > 10,000 mg/kg
  - Method: OECD Test Guideline 401

Acute inhalation toxicity - Product:
- Acute toxicity estimate: 1.36 mg/l
  - Exposure time: 4 h
  - Test atmosphere: dust/mist
  - Method: Calculation method

Acute dermal toxicity - Product:
- LD50 (Rabbit, male and female): > 9,400 mg/kg
  - Method: OECD Test Guideline 402

Acute toxicity (other routes of administration):
- No data available

**Skin corrosion/irritation**

**Components:**
- Diphenylmethanediisocyanate:
  - Species: Rabbit
  - Assessment: Irritating to skin.
  - Method: OECD Test Guideline 404
  - Result: Skin irritation

- 4,4'-methylenediphenyl diisocyanate:
  - Species: Rabbit
  - Method: OECD Test Guideline 404
  - Result: Irritating to skin.

**Serious eye damage/eye irritation**

**Components:**
- Diphenylmethanediisocyanate:
  - Species: Rabbit
  - Result: Irritation to eyes, reversing within 7 days
  - Assessment: Mild eye irritant
  - Method: OECD Test Guideline 405
4,4’-methylene diphenyl diisocyanate:
Species: Rabbit
Result: Mild eye irritation

**Respiratory or skin sensitisation**

**Components:**
Diphenylmethanediisocyanate:
Exposure routes: Skin
Species: Guinea pig
Method: OECD Test Guideline 406
Result: May cause sensitisation by skin contact.

Exposure routes: Respiratory Tract
Species: Rat
Result: May cause sensitisation by inhalation.

4,4’-methylene diphenyl diisocyanate:
Exposure routes: Skin
Species: Mouse
Method: OECD Test Guideline 429
Result: May cause sensitisation by skin contact.

Exposure routes: Respiratory Tract
Species: Guinea pig
Result: May cause sensitisation by inhalation.

Assessment: May cause an allergic skin reaction., May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Germ cell mutagenicity**

**Product:**
Genotoxicity in vitro:
Concentration: 200 ug/plate
Metabolic activation: with and without metabolic activation
Result: negative

**Product:**
Genotoxicity in vivo:
Application Route: Inhalation
Result: Not classified due to inconclusive data.

Application Route: Inhalation
Exposure time: 3 Weeks
Dose: 113 mg/m3
Method: OECD Test Guideline 474
Result: negative

**Product:**
Germ cell mutagenicity-
Assessment:
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Carcinogenicity

**Product:**
Species: Rat, (male and female)  
Application Route: Inhalation  
Exposure time: 24 month(s)  
Dose: 1 mg/m³  
Frequency of Treatment: 5 daily  
Method: OECD Test Guideline 453  
Result: positive

Species: Rat, (male and female)  
Application Route: Inhalation  
Exposure time: 24 month(s)  
Dose: 1 mg/m³  
Frequency of Treatment: 5 daily  
Method: OECD Test Guideline 453  
Result: positive

Carcinogenicity - Assessment: No data available

**IARC**
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH**
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**OSHA**
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

**Product:**
Effects on fertility: Species: Rat, male and female  
Application Route: Inhalation  
Method: OECD Test Guideline 414  
Remarks: No significant adverse effects were reported

Effects on foetal development: Species: Rat, male and female  
Application Route: Inhalation  
General Toxicity Maternal: 4 mg/m³  
Method: OECD Test Guideline 414  
Result: No teratogenic effects
Reproductive toxicity - Assessment: No toxicity to reproduction. No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

STOT - single exposure

Product:
Exposure routes: Inhalation
Target Organs: Respiratory Tract
Assessment: May cause respiratory irritation.

STOT - repeated exposure
No data available

Repeated dose toxicity

Product:
Species: Rat, male and female
: 0.2 mg/m3
Exposure time: 2 yr
Number of exposures: 5 d
Method: OECD Test Guideline 453

Repeated dose toxicity - Assessment: No data available

Aspiration toxicity
No data available

Experience with human exposure
General Information: No data available

Inhalation: No data available
Skin contact: No data available
Eye contact: No data available
Ingestion: No data available

Toxicology, Metabolism, Distribution
No data available

Neurological effects
No data available

Further information
SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish - Product: LC50 (Brachydanio rerio (zebrafish)): > 1,000 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 203
LC0: > 1,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates - Product: EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 24 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

Toxicity to algae - Product: EC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 1,640 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity): No data available

Toxicity to fish (Chronic toxicity): No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) - Product: NOEC (Daphnia magna (Water flea)): >= 10 mg/l
Exposure time: 21 d
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity): No data available

Toxicity to microorganisms - Product: EC50 (activated sludge): > 100 mg/l
Exposure time: 3 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms - Product: EC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg
Exposure time: 336 h
Method: OECD Test Guideline 207

Plant toxicity: No data available
Sediment toxicity: No data available
Toxicity to terrestrial organisms: No data available

Ecotoxicology Assessment
Acute aquatic toxicity: No data available
Chronic aquatic toxicity: No data available
Toxicity Data on Soil: No data available
Other organisms relevant to the environment: No data available

**Persistence and degradability**

<table>
<thead>
<tr>
<th>Biodegradability - Product</th>
<th>Inoculum: Domestic sewage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration: 30 mg/l</td>
<td>Result: Not biodegradable</td>
</tr>
<tr>
<td>Biodegradation: 0 %</td>
<td>Exposure time: 28 d</td>
</tr>
<tr>
<td>Method: Inherent Biodegradability: Modified MITI Test (II)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Biochemical Oxygen Demand (BOD)</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Chemical Oxygen Demand (COD)</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>BOD/COD</th>
<th>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>ThOD</td>
<td>No data available</td>
</tr>
<tr>
<td>BOD/ThOD</td>
<td>No data available</td>
</tr>
<tr>
<td>Dissolved organic carbon (DOC)</td>
<td>No data available</td>
</tr>
<tr>
<td>Physico-chemical removability</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**Components:**

- Diphenylmethanediisocyanate:
  - Stability in water: Degradation half life(DT50): 0.8 d (25 °C)
  - Method: No information available.
  - Remarks: Fresh water

- 4,4’-methylene diphenyl diisocyanate:
  - Stability in water: Degradation half life(DT50): 20 hrs (25 °C)
  - Method: No information available.
Remarks: Fresh water

Photodegradation: No data available
Impact on Sewage Treatment: No data available

Bioaccumulative potential:
Bioaccumulation - Product: Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 200
Remarks: Bioaccumulation is unlikely.

Components:
4,4’-methylene diphenyl diisocyanate:
Partition coefficient: n-octanol/water: log Pow: 4.51 (20 °C)
                        pH: 7
                        Method: OECD Test Guideline 117

Mobility in soil:
Mobility: No data available
Distribution among environmental compartments: No data available
Stability in soil: No data available

Other adverse effects:
Environmental fate and pathways: No data available
Results of PBT and vPvB assessment: No data available
Endocrine disrupting potential: No data available
Adsorbed organic bound halogens (AOX): No data available

Hazardous to the ozone layer:
Ozone-Depletion Potential: Regulation: 40 CFR Protection of Environment; Part 82
Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information: No data available
Global warming potential: No data available
SAFETY DATA SHEET

SUPRASEC® 9704 (STI-03-0.30-9A SealGuard II A)

Version 1.2
Revision Date: 01/10/2017
SDS Number: 400001000009
Date of last issue: 05/23/2016
Date of first issue: 02/10/2016

(GWP)

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues: Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging: Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA
Not regulated as dangerous goods

IMDG
Not regulated as dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

National Regulations

DOT Classification
UN/ID/NA number: NA 3082
Proper shipping name: OTHER REGULATED SUBSTANCES, LIQUID, N.O.S.
(Methylene Diphenyl Diisocyanate)
Class: 9
Packing group: III
Labels: CLASS 9
ERG Code: 171
Marine pollutant: no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-methylene diphenyl diisocyanate</td>
<td>101-68-8</td>
<td>5000</td>
<td>11904</td>
</tr>
</tbody>
</table>
chlorobenzene | 108-90-7 | 100 | *
*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards: Acute Health Hazard

SARA 313: The following components are subject to reporting levels established by SARA Title III, Section 313:

- Diphenylmethanediisocyanate 9016-87-9 50 - 70 %
- 4,4’-methylenediphenyl diisocyanate 101-68-8 30 - 50 %

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

- 4,4’-methylenediphenyl diisocyanate 101-68-8 42 %

California Prop. 65
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

- CH INV: On the inventory, or in compliance with the inventory
- TSCA: On the inventory, or in compliance with the inventory
- DSL: All components of this product are on the Canadian DSL
- AICS: On the inventory, or in compliance with the inventory
- NZIoC: On the inventory, or in compliance with the inventory
- ENCS: On the inventory, or in compliance with the inventory
- KECI: On the inventory, or in compliance with the inventory
- PICCS: On the inventory, or in compliance with the inventory
- IECSC: On the inventory, or in compliance with the inventory
- TCSI: On the inventory, or in compliance with the inventory

Inventories
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

TSCA - 5(a) Significant New Use Rule List of Chemicals
No substances are subject to a Significant New Use Rule.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)
No substances are subject to TSCA 12(b) export notification requirements.
SECTION 16. OTHER INFORMATION

Further information

NFPA:

Flammability

Health

Special hazard.

HMIS® IV:

| HEALTH | * | 2 |
| FRAGILITY | FLAMMABILITY | 1 |
| PHYSICAL HAZARD | 0 |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/' represents the absence of a chronic hazard.

Liquid decontaminants (percentages by weight or volume):
Decontaminant 1: *- sodium carbonate: 5 - 10 % *- liquid detergent: 0.2 - 2 % *- water: to make up to 100 %
Decontaminant 2: *- concentrated ammonia solution: 3 - 8 % *- liquid detergent: 0.2 - 2 % *- water: to make up to 100 %
Decontaminant 1 reacts slower with diisocyanates but is more environmentally friendly than decontaminant 2.
Decontaminant 2 contains ammonia. Ammonia presents health hazards. (See supplier safety information.)

Revision Date: 01/10/2017

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.
The trademarks above are the property of Huntsman Corporation or an affiliate thereof.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE.
SECTION 1. IDENTIFICATION

Product name : RIMLINE SA 97030 (STI-03-003-9B H20STOP B)

Manufacturer or supplier's details
Company name of supplier : Huntsman Polyurethanes
Address : P.O. Box 4980
The Woodlands,
TX 77387
United States of America
Telephone : Tech Info: (800) 257-5547
E-mail address of person responsible for the SDS : MSDS@huntsman.com
Emergency telephone number : Chemtrec: (800) 424-9300 or (703) 527-3887

Recommended use of the chemical and restrictions on use
Recommended use : Component of a Polyurethane System.
Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Skin irritation : Category 2
Serious eye damage : Category 1
Skin sensitisation : Category 1
Specific target organ toxicity - repeated exposure (Oral) : Category 2 (Kidney, Liver, Pancreas)
Acute aquatic toxicity : Category 3
Chronic aquatic toxicity : Category 3

GHS label elements
Hazard pictograms :

Signal word : Danger
Hazard statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
SAFETY DATA SHEET

RIMLINE SA 97030 (STI-03-003-9B SealGuard II B)

Version 1.0  Revision Date: 09/28/2016  SDS Number: 400001016706  Date of last issue: -  Date of first issue: 09/28/2016

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H318 Causes serious eye damage.
H373 May cause damage to organs (Kidney, Liver, Pancreas) through prolonged or repeated exposure if swallowed.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:
Prevention:
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P314 Get medical advice/ attention if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Hazardous components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether polyol</td>
<td>25791-96-2</td>
<td>13 - 30</td>
</tr>
<tr>
<td>Ethylenediamine, ethoxylated and propoxylated</td>
<td>26316-40-5</td>
<td>3 - 7</td>
</tr>
<tr>
<td>Triethylenediamine</td>
<td>280-57-9</td>
<td>1 - 3</td>
</tr>
<tr>
<td>Bis(dimethylaminoethyl) ether</td>
<td>3033-62-3</td>
<td>1 - 3</td>
</tr>
<tr>
<td>Tris(2-chloro-1-methyl)phosphate</td>
<td>13674-84-5</td>
<td>1 - 3</td>
</tr>
<tr>
<td>1-isopropyl-2,2-dimethyltrimethylene disobutyrate</td>
<td>6846-50-0</td>
<td>1 - 3</td>
</tr>
<tr>
<td>diethylmethylbenzenediamine</td>
<td>68479-98-1</td>
<td>1 - 3</td>
</tr>
</tbody>
</table>

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
SAFETY DATA SHEET

RIMLINE SA 97030 (STI-03-003-9B SealGuard II B)

If inhaled : Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position. Obtain medical attention.

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

Notes to physician : Keep under medical supervision for at least 48 hours. The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : No data is available on the product itself.

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO2) Carbon monoxide Nitrogen oxides (NOx) Halogenated compounds phosphorus oxides

Specific extinguishing methods : No data is available on the product itself.
Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment.

Environmental precautions: Try to prevent the material from entering drains or water courses. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Technical measures: Ensure that eyewash stations and safety showers are close to the workstation location.

Local/Total ventilation: Ensure adequate ventilation.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Advice on safe handling: For personal protection see section 8. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage: Store in original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters
Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis
--- | --- | --- | --- | ---
Bis(dimethylaminoethyl) ether | 3033-62-3 | TWA | 0.05 ppm | ACGIH
| | | STEL | 0.15 ppm | ACGIH

**Personal protective equipment**

**Respiratory protection**: In the case of vapour formation use a respirator with an approved filter.

**Hand protection**

**Remarks**: Protective gloves
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Before removing gloves clean them with soap and water.

**Eye protection**: Eye wash bottle with pure water
Tightly fitting safety goggles

**Skin and body protection**: Protective suit
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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

**Hygiene measures**: Handle in accordance with good industrial hygiene and safety practice.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**: liquid

**Colour**: No data available

**Odour**: No data available

**Odour Threshold**: No data available

**pH**: No data available

**Melting point/freezing point**: No data available

**Boiling point/boiling range**: No data available

**Flash point**: > 121.11 °C
Method: Seta closed cup, closed cup

**Evaporation rate**: No data available

**Flammability (solid, gas)**: No data is available on the product itself.
Flammability (liquids) : No data is available on the product itself.
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Relative vapour density : No data available
Relative density : 1.05
Density : No data available
Bulk density : No data available
Solubility(ies)
Water solubility : No data available
Solubility in other solvents : No data is available on the product itself.
Partition coefficient: n-octanol/water : No data is available on the product itself.
Auto-ignition temperature : not determined
Decomposition temperature Self-Accelerating decomposition temperature (SADT) : No data available
Viscosity
Viscosity, dynamic : 300 mPa.s
Viscosity, kinematic : No data available
Explosive properties : Not applicable
Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.
Chemical stability : No decomposition if stored and applied as directed.
Possibility of hazardous reactions : Stable under recommended storage conditions.
Conditions to avoid : No data available
Incompatible materials : No data available
Hazardous decomposition products : Stable under normal conditions.
SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure: No data is available on the product itself.

**Acute toxicity**

**Acute oral toxicity - Product**
- Acute toxicity estimate: 3,249 mg/kg
- Method: Calculation method

**Acute inhalation toxicity - Product**
- Acute toxicity estimate: > 200 mg/l
- Exposure time: 4 h
- Test atmosphere: dust/mist
- Method: Calculation method

**Acute dermal toxicity - Product**
- Acute toxicity estimate: > 5,000 mg/kg
- Method: Calculation method

Acute toxicity (other routes of administration): No data available

**Skin corrosion/irritation**

**Components:**

Polyether polyol:
- Species: Rabbit
- Assessment: No skin irritation
- Method: OECD Test Guideline 404
- Result: No skin irritation

Ethylenediamine, ethoxylated and propoxylated:
- Species: Rabbit
- Assessment: No skin irritation
- Method: OPPTS 870.2500
- Result: No skin irritation

Triethylenediamine:
- Species: Rabbit
- Assessment: Irritant
- Result: Irritating to skin.

Bis(dimethylaminoethyl) ether:
- Species: Rabbit
- Method: OECD Test Guideline 404
- Result: Causes burns.

tris(2-chloro-1-methylethyl) phosphate:
- Species: Rabbit
- Assessment: No skin irritation
- Method: OECD Test Guideline 404
- Result: No skin irritation

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:
SAFETY DATA SHEET

RIMLINE SA 97030 (STI-03-003-9B SealGuard II B)

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date</th>
<th>SDS Number</th>
<th>Date of last issue</th>
<th>Date of first issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>09/28/2016</td>
<td>400001016706</td>
<td></td>
<td>09/28/2016</td>
</tr>
</tbody>
</table>

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation

diethylmethylbenzenediamine:  
Species: Rabbit  
Assessment: No skin irritation  
Method: OECD Test Guideline 404  
Result: No skin irritation

### Serious eye damage/eye irritation

**Components:**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Species</th>
<th>Result</th>
<th>Method</th>
<th>GLP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether polyol:</td>
<td>Rabbit</td>
<td>No eye irritation</td>
<td>OECD Test Guideline 405</td>
<td></td>
</tr>
<tr>
<td>Ethylenediamine, ethoxylated and propoxylated:</td>
<td>Rabbit</td>
<td>Irritation to eyes, reversing after 7 to 21 days</td>
<td>OECD Test Guideline 405</td>
<td>no</td>
</tr>
<tr>
<td>Triethylenediamine:</td>
<td>Rabbit</td>
<td>Irreversible effects on the eye</td>
<td>OECD Test Guideline 405</td>
<td>yes</td>
</tr>
<tr>
<td>Bis(dimethylaminoethyl) ether:</td>
<td>Rabbit</td>
<td>Risk of serious damage to eyes.</td>
<td>OECD Test Guideline 405</td>
<td></td>
</tr>
<tr>
<td>tris(2-chloro-1-methylethyl) phosphate:</td>
<td>Rabbit</td>
<td>No eye irritation</td>
<td>OECD Test Guideline 405</td>
<td></td>
</tr>
<tr>
<td>1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:</td>
<td>Rabbit</td>
<td>No eye irritation</td>
<td>OECD Test Guideline 405</td>
<td>yes</td>
</tr>
<tr>
<td>diethylmethylbenzenediamine:</td>
<td>Rabbit</td>
<td>Irritating to eyes.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Assessment: Irritant

Species: Rabbit
Result: Normally reversible injuries
Assessment: Irritant
Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Components:
Polyether polyol:
Exposure routes: Skin
Species: Guinea pig
Assessment: Does not cause skin sensitisation.
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.

Ethylene diamine, ethoxylated and propoxylated:
Exposure routes: Skin
Species: Mouse
Method: OECD Test Guideline 429
Result: The product is a skin sensitizer, sub-category 1B.

Triethylene diamine:
Exposure routes: Skin
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.

Bis(dimethylaminoethyl) ether:
Exposure routes: Skin
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.

Tris(2-chloro-1-methylethyl) phosphate:
Exposure routes: Skin
Species: Mouse
Method: OECD Test Guideline 429
Result: Does not cause skin sensitisation.

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:
Exposure routes: Skin
Species: Humans
Result: Does not cause skin sensitisation.

diethylmethylbenzenediamine:
Exposure routes: Skin
Species: Guinea pig
Result: Does not cause skin sensitisation.

Components:
Polyether polyol: Harmful if swallowed.
Germ cell mutagenicity

Components:
Polyether polyol:
Genotoxicity in vitro:
  Test Type: Ames test
  Species: Salmonella typhimurium
  Metabolic activation: with and without metabolic activation
  Method: OECD Test Guideline 471
  Result: negative

  Test Type: Chromosome aberration test in vitro
  Metabolic activation: with and without metabolic activation
  Method: OECD Test Guideline 473
  Result: negative

  Test Type: In vitro mammalian cell gene mutation test
  Species: Chinese hamster cells
  Metabolic activation: with and without metabolic activation
  Method: OECD Test Guideline 476
  Result: negative

Ethylenediamine, ethoxylated and propoxylated:
Genotoxicity in vitro:
  Concentration: 5000 ug/plate
  Metabolic activation: with and without metabolic activation
  Method: OECD Test Guideline 471
  Result: negative

  Concentration: 2800 ug/plate
  Metabolic activation: with and without metabolic activation
  Method: OECD Test Guideline 476
  Result: negative

  Concentration: 2800 µg/L
  Metabolic activation: with and without metabolic activation
  Method: OECD Test Guideline 473
  Result: negative

Triethylenediamine:
Genotoxicity in vitro:
  Metabolic activation: with and without metabolic activation
  Method: OECD Test Guideline 471
  Result: negative

Bis(dimethylaminoethyl) ether:
Genotoxicity in vitro:
  Concentration: .08 - .18 mg/ml
  Metabolic activation: with and without metabolic activation
  Method: OECD Test Guideline 476
  Result: negative

  Metabolic activation: with and without metabolic activation
  Method: OECD Test Guideline 471
  Result: negative

  Metabolic activation: with and without metabolic activation
  Method: OECD Test Guideline 479
  Result: Not classified due to inconclusive data.
Metabolic activation: negative
Method: OECD Test Guideline 482
Result: negative

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:
Genotoxicity in vitro: Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
Concentration: 100 - 5000 ug/plate
Metabolic activation: with and without metabolic activation
Result: negative

diethylmethylbenzenediamine:
Genotoxicity in vitro: Metabolic activation: negative
Method: OECD Test Guideline 476
Result: negative

Components:
Triethylenediamine:
Genotoxicity in vivo: Application Route: Oral
Dose: 0 - 900 mg/kg
Result: negative

Bis(dimethylaminoethyl) ether:
Genotoxicity in vivo: Application Route: Intraperitoneal injection
Dose: 45 - 145 mg/kg
Method: OECD Test Guideline 474
Result: negative

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:
Genotoxicity in vivo: Cell type: Ovary
Method: OECD Test Guideline 476
Result: negative

diethylmethylbenzenediamine:
Genotoxicity in vivo: Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

Components:
tris(2-chloro-1-methylethyl) phosphate:
Germ cell mutagenicity-Assessment: Did not show mutagenic effects in animal experiments.

Germ cell mutagenicity-Assessment: No data available

Carcinogenicity
Components:
diethylmethylbenzenediamine:
Species: Rat, (male and female)
Application Route: Oral
Exposure time: 24 month(s)
Dose: 1.8 - 3.2 mg/kg
Frequency of Treatment: 7 daily
Method: OECD Test Guideline 451
Result: negative

Carcinogenicity - Assessment: No data available

IARC
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Components:
Ethylenediamine, ethoxylated and propoxylated:
Effects on fertility: Species: Rat, male and female
Application Route: Oral
Method: OECD Test Guideline 421
Result: Animal testing did not show any effects on fertility.

Triethylenediamine:
Species: Rat, male and female
Application Route: Oral
Method: OECD Test Guideline 422
GLP: yes

tris(2-chloro-1-methylethyl) phosphate:
Species: Rat, male and female
Application Route: Oral
General Toxicity - Parent: Lowest observed adverse effect level: 99 mg/kg body weight
Method: OECD Test Guideline 416
Result: Animal testing did not show any effects on fertility.

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:
Species: Rat, male and female
Application Route: Oral
Method: OECD Test Guideline 421
Species: Rat, male and female
Application Route: Oral
Method: OECD Test Guideline 422
Result: Animal testing did not show any effects on fertility.
SAFETY DATA SHEET

RIMLINE SA 97030 (STI-03-003-9B SealGuard II B)

Components:
Triethylenediamine:
- Effects on foetal development
  - Species: Rat, female
  - Application Route: Oral
  - Result: No teratogenic effects
  - Species: Rat, male and female
  - Application Route: Oral
  - General Toxicity Maternal: No observed adverse effect level:
    - 300 mg/kg body weight
  - Method: OECD Test Guideline 422
  - Result: No teratogenic effects

Bis(dimethylaminoethyl) ether:
- Species: Rabbit
- Application Route: Dermal
- General Toxicity Maternal: No observed adverse effect level:
  - >= 12 mg/kg body weight
- Method: OECD Test Guideline 414
- Result: Teratogenic effects

tris(2-chloro-1-methylethyl) phosphate:
- Species: Rat, female
- Application Route: Oral
- General Toxicity Maternal: No-observed-effect level: 57 mg/kg body weight
- Method: OECD Test Guideline 414
- Result: No teratogenic effects

diethylmethylbenzenediamine:
- Species: No information available.
- Application Route: No data available
- Result: No data available

Reproductive toxicity - Assessment: No data available

STOT - single exposure
No data available

STOT - repeated exposure

Components:
diethylmethylbenzenediamine:
- Exposure routes: Ingestion
- Target Organs: Pancreas, Liver, Kidney
- Assessment: May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:
Polyether polyol:
- Species: Rat, male and female
- NOAEL: >= 1000 mg/kg
Application Route: Oral
Exposure time: 31 Days
Number of exposures: 11 hours/day
Method: OECD Test Guideline 407

Triethylenediamine:
Species: Rat, male and female
LOEC: 60 mg/m3
Application Route: Ingestion
Test atmosphere: dust/mist
Exposure time: 696 h
Number of exposures: 7 d
Method: OECD Test Guideline 412

Bis(dimethylaminoethyl) ether:
Species: Rat, male and female
NOEC: 8.2 mg/m3
Application Route: Ingestion
Test atmosphere: vapour
Exposure time: 336 h
Number of exposures: 6 h
Method: Subacute toxicity

tris(2-chloro-1-methylethyl) phosphate:
Species: Rat, male
LOAEL: 52 mg/kg/d
Application Route: Ingestion
Exposure time: 13 Weeks
Number of exposures: 7 d
Method: Subchronic toxicity

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:
Species: Rat, male and female
NOAEL: 150 - 750 mg/kg/d
Application Route: Ingestion
Exposure time: 13 Weeks
Number of exposures: 7 d
Method: Subchronic toxicity

Species: Rat, male and female
NOEL: 30 mg/kg
Application Route: Ingestion
Number of exposures: 7 d
Method: Subchronic toxicity

diethylmethylbenzenediamine:
Species: Rat, male and female
NOAEL: 8 - 10 mg/kg
Application Route: Ingestion
Exposure time: 2,160 h
Method: Subchronic toxicity
Components:
Polyether polyol:
Repeated dose toxicity - Assessment : Harmful if swallowed.

Aspiration toxicity
No data available

Experience with human exposure
General Information: No data available

Inhalation: No data available
Skin contact: No data available
Eye contact: No data available
Ingestion: No data available

Toxicology, Metabolism, Distribution
No data available

Neurological effects
No data available

Further information

Product:
Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:
Polyether polyol:
Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 1,000 mg/l
Exposure time: 96 h
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 203

Ethylenediamine, ethoxylated and propoxylated:
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 25,600 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 203

Triethylenediamine:
Toxicity to fish: LC50 (Cyprinus carpio (Carp)): > 100 mg/l
Exposure time: 96 h
Test substance: Fresh water
Method: OECD Test Guideline 203

Bis(dimethylaminoethyl) ether:
Toxicity to fish: LC50 (Brachydanio rerio (zebrafish)): ca. 131.2 mg/l
Exposure time: 96 h
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 203

tris(2-chloro-1-methylethyl) phosphate:
Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 51 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: Fresh water

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:
Toxicity to fish: EC50 (Lepomis macrochirus (Bluegill sunfish)): >= 6 mg/l
Exposure time: 96 h
Test Type: flow-through test
Test substance: Fresh water
Method: OECD Test Guideline 203
Remarks: No-observed-effect level

diethylmethylbenzenediamine:
Toxicity to fish: LC50 (Leuciscus idus (Golden orfe)): 200 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: DIN 38412

Components:
Polyether polyol:
Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

Ethylenediamine, ethoxylated and propoxylated:
Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 103 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

Triethylenediamine:
Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
**Components:**

**Polyether polyol:**
- **Toxicity to algae:**
  - LC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 100 mg/l
  - Exposure time: 96 h
  - Test Type: static test
  - Test substance: Fresh water
  - Method: OECD Test Guideline 201

**Ethylenediamine, ethoxylated and propoxylated:**
- **Toxicity to algae:**
  - EC50: 150.67 mg/l
  - Exposure time: 72 h
  - Test Type: static test
  - Test substance: Marine water

**Triethylenediamine:**
- **Toxicity to algae:**
  - ErC50 (Selenastrum capricornutum (green algae)): 180 mg/l
  - Exposure time: 72 h
  - Test Type: static test
  - Method: OECD Test Guideline 201

**Bis(dimethylaminoethyl) ether:**
- **Toxicity to algae:**
  - ErC50 (Selenastrum capricornutum (green algae)): 24 mg/l
  - Exposure time: 72 h

**Test Type:** static test

**Method:** OECD Test Guideline 202
SAFETY DATA SHEET

RIMLINE SA 97030 (STI-03-003-9B SealGuard II B)

Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

tris(2-chloro-1-methylethyl) phosphate:
Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): 82 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:
Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): > 7.49 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
Remarks: Aquatic toxicity is unlikely due to low solubility.

diethylmethylbenzenediamine:
Toxicity to algae : ErC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): ca. 104 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

Components:
diethylmethylbenzenediamine:  
M-Factor (Acute aquatic toxicity) : 1

Components:
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:  
Toxicity to fish (Chronic toxicity) : GLP: yes

Components:
Polyether polyol:  
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): >= 10 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Test substance: Fresh water  
Method: OECD Test Guideline 211

Ethylendiamine, ethoxylated and propoxylated:  
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): >= 10 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Test substance: Fresh water  
Method: OECD Test Guideline 211

Triethylenediamine:  
Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): 92 mg/l  
Exposure time: 48 hrs
(Chronic toxicity) Test Type: static test
Method: OECD Test Guideline 202

tris(2-chloro-1-methylethyl) phosphate:
Toxicity to daphnia and other aquatic invertebrates:
(Chronic toxicity)
NOEC (Daphnia magna (Water flea)): 32 mg/l
Exposure time: 21 d
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 202

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:
Toxicity to daphnia and other aquatic invertebrates:
(Chronic toxicity)
NOEC (Daphnia magna (Water flea)): 0.7 mg/l
Exposure time: 21 d
Test Type: flow-through test
Test substance: Fresh water
Method: OECD Test Guideline 211
Remarks: Aquatic toxicity is unlikely due to low solubility.
EC50 (Daphnia magna (Water flea)): >= 1.3 mg/l
Exposure time: 21 d
Test Type: flow-through test
Test substance: Fresh water

M-Factor (Chronic aquatic toxicity): No data available

Components:
Polyether polyol:
Toxicity to bacteria:
IC50 (activated sludge): > 10,000 mg/l
Exposure time: 3 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 209

Ethylene diamine, ethoxylated and propoxylated:
Toxicity to bacteria:
IC50 (activated sludge): > 10,000 mg/l
Exposure time: 3 h
Test Type: static test
Test substance: Fresh water

tris(2-chloro-1-methylethyl) phosphate:
Toxicity to bacteria:
EC50 (activated sludge): 784 mg/l
Exposure time: 3 h
Test Type: static test
Test substance: Fresh water
Method: ISO 8192

diethylethylbenzenediamine:
Toxicity to bacteria:
EC50 (Pseudomonas putida): >= 170 mg/l
Exposure time: 24 h
Test Type: static test
Test substance: Fresh water
tris(2-chloro-1-methylethyl) phosphate:
Toxicity to soil dwelling organisms: NOEC (Eisenia fetida (earthworms)): 53 mg/kg
Exposure time: 1,344 h
Test substance: Synthetic
Method: OECD Test Guideline 222

Components:
tris(2-chloro-1-methylethyl) phosphate:
Plant toxicity: NOEC: 17 mg/kg
Exposure time: 504 h
Test substance: Natural
Method: OECD Test Guideline 208

Sediment toxicity: No data available

Components:
tris(2-chloro-1-methylethyl) phosphate:
Toxicity to terrestrial organisms: NOEC: >= 128 mg/kg
Exposure time: 672 h
Method: OECD Test Guideline 216

Ecotoxicology Assessment
Acute aquatic toxicity: No data available

Components:
Bis(dimethylaminoethyl) ether:
Chronic aquatic toxicity: This product has no known ecotoxicological effects.

Toxicity Data on Soil:
No data available

Other organisms relevant to the environment:
No data available

Further information:
No data available

Persistence and degradability

Components:
Polyether polyol:
Biodegradability: Test Type: aerobic
Concentration: 100 mg/l
Result: Inherently biodegradable.
Biodegradation: 1.9 %
Exposure time: 28 d
Method: Inherent Biodegradability: Modified SCAS Test

Test Type: aerobic
Concentration: 20 mg/l
Result: Not readily biodegradable.
Biodegradation: 40 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
Test Type: aerobic
Inoculum: Mixture
Result: Inherently biodegradable.
Biodegradation: 22 %
Exposure time: 28 d
Method: ISO 5815

Ethylenediamine, ethoxylated and propoxylated:
Biodegradability
Concentration: 100 mg/l
Result: Not biodegradable
Biodegradation: 2 %
Exposure time: 28 d

Triethylenediamine:
Biodegradability
Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 7 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: ca. 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301C

Bis(dimethylaminoethyl) ether:
Biodegradability
Inoculum: activated sludge
Result: Inherently biodegradable.
Biodegradation: < 10 %
Exposure time: 28 d
Method: OECD Test Guideline 302B

Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 2 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

tris(2-chloro-1-methylethyl) phosphate:
Biodegradability
Inoculum: activated sludge
Result: Inherently biodegradable.
Biodegradation: 95 %
Exposure time: 63 d
Method: OECD Test Guideline 302A

Inoculum: activated sludge
Concentration: 20 mg/l
Result: Not readily biodegradable.
Biodegradation: 14 %
Exposure time: 28 d
Method: OECD Test Guideline 301E

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:
Biodegradability: Inoculum: activated sludge
Concentration: 10 mg/l
Result: Readily biodegradable
Biodegradation: 70.73%
Exposure time: 28 d
Method: OECD Test Guideline 310

Biodegradability: diethylmethylbenzenediamine
Result: Not readily biodegradable.
Biodegradation: < 60%
Exposure time: 28 d

Biodegradability: Result: Not readily biodegradable.
Biodegradation: < 1%
Exposure time: 28 d
Method: OECD Test Guideline 301D

Components:
Polyether polyol:
Biochemical Oxygen Demand (BOD): 355 mg/g

Ethylene diamine, ethoxylated and propoxylated:
Biochemical Oxygen Demand (BOD): 355 mg/g

Components:
Polyether polyol:
Chemical Oxygen Demand (COD): 1,600 mg/g

Ethylene diamine, ethoxylated and propoxylated:
Chemical Oxygen Demand (COD): 1,600 mg/g

BOD/COD: No data available
ThOD: No data available
BOD/ThOD: No data available
Dissolved organic carbon (DOC): No data available
Physico-chemical removability: No data available

Components:
Bis(dimethylaminoethyl) ether:
Stability in water: Method: No information available.
GLP: No information available.
Remarks: see user defined free text

tris(2-chloro-1-methylethyl) phosphate:
Stability in water: Degradation half life (DT50): > 1 yr (25 °C) pH: 6.5
Method: No information available.
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:

<table>
<thead>
<tr>
<th>Stability in water</th>
<th>Degradation half life (DT50): 1.48 - 14.75 yr (20 °C) pH: 7.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Method</td>
<td>Degradation (direct photolysis): 50 %</td>
</tr>
<tr>
<td>Remarks</td>
<td>Fresh water</td>
</tr>
</tbody>
</table>

**Components:**

**Triethylenediamine:**

<table>
<thead>
<tr>
<th>Photodegradation Method</th>
<th>Rate constant: &lt; .00001</th>
</tr>
</thead>
</table>

**tris(2-chloro-1-methylethyl) phosphate:**

<table>
<thead>
<tr>
<th>Photodegradation Method</th>
<th>Test Type: Air</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate constant</td>
<td>&lt; .00001</td>
</tr>
</tbody>
</table>

**diethylmethylbenzenediamine:**

<table>
<thead>
<tr>
<th>Photodegradation Method</th>
<th>Test Type: Air</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate constant</td>
<td>&lt; .00001</td>
</tr>
</tbody>
</table>

**Impact on Sewage Treatment:**

| Remarks                  | No data available                                             |

**Bioaccumulative potential**

**Components:**

**Polyether polyol:**

<table>
<thead>
<tr>
<th>Bioaccumulation Method</th>
<th>Remarks: Does not bioaccumulate.</th>
</tr>
</thead>
</table>

**Triethylenediamine:**

<table>
<thead>
<tr>
<th>Bioaccumulation Method</th>
<th>Remarks: Bioaccumulation is unlikely.</th>
</tr>
</thead>
</table>

**Bis(dimethylaminoethyl) ether:**

<table>
<thead>
<tr>
<th>Bioaccumulation Method</th>
<th>Remarks: Bioaccumulation is unlikely.</th>
</tr>
</thead>
</table>

**tris(2-chloro-1-methylethyl) phosphate:**

<table>
<thead>
<tr>
<th>Bioaccumulation Method</th>
<th>Remarks: Bioaccumulation is unlikely.</th>
</tr>
</thead>
</table>

**1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:**

<table>
<thead>
<tr>
<th>Bioaccumulation Method</th>
<th>Remarks: Bioaccumulation is unlikely.</th>
</tr>
</thead>
</table>

---

GLP: yes
Remarks: Fresh water
SAFETY DATA SHEET

RIMLINE SA 97030 (STI-03-003-9B SealGuard B)

Method: flow-through test
Remarks: Bioaccumulation is unlikely.

diethylmethylbenzenediamine:
Bioaccumulation : Bioconcentration factor (BCF): 13.82
Remarks: Bioaccumulation is unlikely.

Bioconcentration factor (BCF): 2.75
Remarks: Does not bioaccumulate.

Components:

Polyether polyol:
Partition coefficient: n-octanol/water : Pow: 0.73 - 1.82 (25 °C)
pH: > 12

Ethylene diamine, ethoxylated and propoxylated:
Partition coefficient: n-octanol/water : log Pow: -1.25 - 1.2 (25 °C)
pH: 12

Triethylenediamine:
Partition coefficient: n-octanol/water : log Pow: -0.49

Bis(dimethylaminoethyl) ether:
Partition coefficient: n-octanol/water : log Pow: -0.34 (20 °C)
Method: Partition coefficient

tris(2-chloro-1-methylethyl) phosphate:
Partition coefficient: n-octanol/water : log Pow: 2.68 (30 °C)
pH: 7.1
Method: Partition coefficient

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:
Partition coefficient: n-octanol/water : log Pow: 4.04 - 4.91 (25 °C)
pH: 7

Components:

Mobility in soil

Mobility : No data available

Components:

Ethylene diamine, ethoxylated and propoxylated:
Distribution among environmental compartments : Koc: ca. 1.58Method: OECD Test Guideline 121

tris(2-chloro-1-methylethyl) phosphate:
Koc: 780Method: OECD Test Guideline 106

diethylmethylbenzenediamine:
Distribution among : Koc: 132 - 170
environmental compartments
Koc: 31.72 - 551

Stability in soil
: No data available

Other adverse effects
Environmental fate and pathways
: No data available

Results of PBT and vPvB assessment
: No data available

Endocrine disrupting potential
: No data available

Adsorbed organic bound halogens (AOX)
: No data available

Hazardous to the ozone layer
Ozone-Depletion Potential
: Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information - Product
: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Global warming potential (GWP)
: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues
: The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
: Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION
International Regulation

IATA
Not regulated as dangerous goods

IMDG
Not regulated as dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

National Regulations

DOT Classification
Not regulated as dangerous goods

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>methanol</td>
<td>67-56-1</td>
<td>5000</td>
<td>*</td>
</tr>
</tbody>
</table>

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : Acute Health Hazard

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65 WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

methanol 67-56-1

The components of this product are reported in the following inventories:

CH INV : The formulation contains substances listed on the Swiss Inventory, On the inventory, or in compliance with the inventory

TSCA : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory
**SAFETY DATA SHEET**

**RIMLINE SA 97030 (STI-03-003-9B SealGuard II B)**

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date</th>
<th>SDS Number</th>
<th>Date of last issue</th>
<th>Date of first issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>09/28/2016</td>
<td>400001016706</td>
<td>-</td>
<td>09/28/2016</td>
</tr>
</tbody>
</table>

**IECSC** : On the inventory, or in compliance with the inventory  
**TCSI** : Not in compliance with the inventory

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

**TSCA - 5(a) Significant New Use Rule List of Chemicals**

No substances are subject to a Significant New Use Rule.

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)  
**diethylmethylbenzenediamine**  
68479-98-1

**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA:**

- **Health:** 3  
- **Flammability:** 1  
- **Reactivity:** 0  

**HMIS III:**

- **Health:** 3*  
- **Flammability:** 1  
- **Physical Hazard:** 0

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

Revision Date : 09/28/2016

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.
SAFETY DATA SHEET

RIMLINE SA 97030 (STI-03-003-9B SealGuard II B)

Version: 1.0
Revision Date: 09/28/2016
SDS Number: 400001016706
Date of last issue: -
Date of first issue: 09/28/2016

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

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