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Version	Revision Date:	SDS Number:	Date of last issue: 01/10/2017
1.3	03/07/2018	400001000009	Date of first issue: 02/10/2016

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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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**RIMLINE SA 97030 (STI-03-003-9B H20STOP B)**

Version 1.1      Revision Date: 05/16/2018      SDS Number: 400001016706      Date of last issue: 09/28/2016  
Date of first issue: 09/28/2016

**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 (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**

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.

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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.

**Storage:**

Not available

**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**

Substance / Mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
Glycerol, propoxylated	25791-96-2	20 - 30
Ethylenediamine, ethoxylated and propoxylated	26316-40-5	1 - 5
Triethylenediamine	280-57-9	1 - 3
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	3033-62-3	1 - 2.5
tris(2-chloro-1-methylethyl) phosphate	13674-84-5	1 - 2.5
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	6846-50-0	1 - 2.5
diethylmethylbenzenediamine	68479-98-1	1 - 2.5

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

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**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.  
Treat symptomatically.  
Get medical attention if symptoms occur.
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
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 : None known.
- Notes to physician : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- 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.
- Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen chloride  
Halogenated compounds  
Oxides of phosphorus



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- 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 : Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
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**

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
To avoid spills during handling keep bottle on a metal tray.  
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.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Keep in properly labelled containers.
- Materials to avoid : For incompatible materials please refer to Section 10 of this SDS.

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Further information on storage stability : Stable under normal conditions.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	3033-62-3	TWA	0.05 ppm	ACGIH
		STEL	0.15 ppm	ACGIH

**Personal protective equipment**

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection  
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

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

Hygiene measures : 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

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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 : > 250.00 °F / > 121.11 °C  
Method: Seta 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 / Upper flammability limit : No data is available on the product itself.

Lower explosion limit / Lower flammability limit : No data is available on the product itself.

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : 1.05 (68 °F / 20 °C)

Density : 1.05 g/cm<sup>3</sup> (68 °F / 20 °C)

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 : 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 : 300 mPa.s

Viscosity, kinematic : No data available

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

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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 : No hazards to be specially mentioned.

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition products : carbon monoxide

carbon dioxide

Halogenated compounds

hydrogen chloride

Oxides of phosphorus

**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 : 3,295 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:**

Glycerol, propoxylated:

Species: Rabbit

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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.

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine):  
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:  
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:**

Glycerol, propoxylated:  
Species: Rabbit  
Result: No eye irritation  
Assessment: No eye irritation  
Method: OECD Test Guideline 405

Ethylenediamine, ethoxylated and propoxylated:  
Species: Rabbit  
Result: Irritation to eyes, reversing after 7 to 21 days  
Method: OECD Test Guideline 405  
GLP: no

Species: Rabbit  
Result: Mild eye irritation  
Method: OECD Test Guideline 405

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Triethylenediamine:

Species: Rabbit

Result: Irreversible effects on the eye

Assessment: Risk of serious damage to eyes.

Method: OECD Test Guideline 405

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine):

Species: Rabbit

Result: Risk of serious damage to eyes.

Method: OECD Test Guideline 405

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

Species: Rabbit

Result: No eye irritation

Assessment: No eye irritation

Method: OECD Test Guideline 405

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

diethylmethylbenzenediamine:

Species: Rabbit

Result: Irritating to eyes.

Assessment: Irritant

Species: Rabbit

Result: Normally reversible injuries

Assessment: Irritant

Method: OECD Test Guideline 405

**Respiratory or skin sensitisation****Components:**

Glycerol, propoxylated:

Exposure routes: Skin

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

Ethylenediamine, ethoxylated and propoxylated:

Exposure routes: Skin

Species: Mouse

Method: OECD Test Guideline 429

Result: The product is a skin sensitiser, sub-category 1B.

Triethylenediamine:

Exposure routes: Skin

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine):

Exposure routes: Skin

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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:**

Glycerol, propoxylated:  
 Assessment: Harmful if swallowed.

**Germ cell mutagenicity****Components:**

Glycerol, propoxylated:  
 Genotoxicity in vitro : Test Type: Ames test  
 Test system: 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  
 Test system: 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

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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

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine):  
 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  
 Method: Directive 67/548/EEC, Annex, B.13/14  
 Result: negative

Test Type: In vitro mammalian cell gene mutation test  
 Test system: Chinese hamster ovary cells  
 Method: OECD Test Guideline 476  
 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



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**N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine):**

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- : Did not show mutagenic effects in animal experiments.  
 Assessment

Germ cell mutagenicity- : No data available  
 Assessment

**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 - : No data available  
 Assessment

**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 on OSHA's list of regulated carcinogens.

**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.

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**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  
Dose: 100 milligram per kilogram  
Method: OECD Test Guideline 422

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.

**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

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine):

Species: Rabbit  
Application Route: Dermal  
General Toxicity Maternal: No observed adverse effect level:  
2.5 mg/kg body weight  
Embryo-foetal toxicity: No observed adverse effect level: 12  
mg/kg body weight  
Method: OECD Test Guideline 414  
Result: Embryotoxic effects and adverse effects on the  
offspring were detected only at high maternally toxic doses

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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

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:

Species: Rat, females  
Application Route: Oral  
General Toxicity Maternal: No observed adverse effect level:  
343 mg/kg body weight  
Developmental Toxicity: No observed adverse effect level:  
343 mg/kg body weight  
Method: OECD Test Guideline 414

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:**

Glycerol, propoxylated:

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/m<sup>3</sup>

Application Route: Ingestion

Test atmosphere: dust/mist

Exposure time: 696 h

Number of exposures: 7 d

Method: OECD Test Guideline 412

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine):

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Species: Rat, male and female  
NOEC: 8.2 mg/m<sup>3</sup>  
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:**

Glycerol, propoxylated:  
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

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Skin contact: No data available

**Components:**

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine):

Eye contact : Symptoms: Blurred vision

Ingestion: No data available

**Toxicology, Metabolism, Distribution**

No data available

**Neurological effects**

No data available

**Further information**

Ingestion: No data available

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:**

Glycerol, propoxylated:

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

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine):

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

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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:**

Glycerol, propoxylated:

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  
Test Type: static test  
Method: OECD Test Guideline 202

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine):

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 102 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 202

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

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 131 mg/l  
Exposure time: 48 h  
Test Type: static test

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Test substance: Fresh water

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.46 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Remarks: Aquatic toxicity is unlikely due to low solubility.

diethylmethylbenzenediamine:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.5 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: Directive 67/548/EEC, Annex V, C.2.

**Components:**

Glycerol, propoxylated:

Toxicity to algae : LC50 (Desmodesmus subspicatus (green algae)): > 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  
Method: Directive 67/548/EEC, Annex V, C.3.

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

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine):

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): 24 mg/l  
Exposure time: 72 h  
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

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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 (green algae)): 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:****Glycerol, propoxylated:**

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

**Ethylenediamine, ethoxylated and propoxylated:**

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)):  $\geq 10$  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 (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 92 mg/l  
Exposure time: 48 hrs  
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



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Method: OECD Test Guideline 211

Remarks: Aquatic toxicity is unlikely due to low solubility.

EC50 (Daphnia magna (Water flea)):  $\geq$  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:**

Glycerol, propoxylated:

Toxicity to microorganisms : IC50 (activated sludge):  $>$  10,000 mg/l

Exposure time: 3 h

Test Type: static test

Test substance: Fresh water

Method: OECD Test Guideline 209

Ethylenediamine, ethoxylated and propoxylated:

Toxicity to microorganisms : IC50 (activated sludge):  $>$  10,000 mg/l

Exposure time: 3 h

Test Type: static test

Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.11

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

Toxicity to microorganisms : EC50 (activated sludge): 784 mg/l

Exposure time: 3 h

Test Type: static test

Test substance: Fresh water

Method: ISO 8192

diethylmethylbenzenediamine:

Toxicity to microorganisms : EC50 (Pseudomonas putida):  $\geq$  170 mg/l

Exposure time: 24 h

Test Type: static test

Test substance: Fresh water

**Components:**

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

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**Components:**

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

Toxicity to terrestrial organisms : NOEC:  $\geq$  128 mg/kg  
Exposure time: 672 h  
Method: OECD Test Guideline 216

Ecotoxicology Assessment

Acute aquatic toxicity : No data available

**Components:**

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine):

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

**Persistence and degradability****Components:**

Glycerol, propoxylated:

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  
Method: Directive 67/548/EEC Annex V, C.4.D.

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## 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

## N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine):

## 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

## diethylmethylbenzenediamine:

## Biodegradability

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

Result: Not readily biodegradable.  
Biodegradation: < 1 %  
Exposure time: 28 d

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Method: OECD Test Guideline 301D

**Components:**

Glycerol, propoxylated:  
Biochemical Oxygen Demand (BOD) : 355 mg/g

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

**Components:**

Glycerol, propoxylated:  
Chemical Oxygen Demand (COD) : 1,600 mg/g  
Ethylenediamine, 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:**

tris(2-chloro-1-methylethyl) phosphate:  
Stability in water : Degradation half life(DT50): > 1 yr (77 °F / 25 °C) pH: 6.5  
Remarks: Fresh water

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:  
Stability in water : Degradation half life(DT50): 1.48 - 14.75 yr (68 °F / 20 °C) pH: 7.5  
Method: No information available.

**Components:**

Triethylenediamine:  
Photodegradation : Rate constant: < .00001

tris(2-chloro-1-methylethyl) phosphate:  
Photodegradation : Test Type: Air  
Rate constant: < .00001  
Degradation (direct photolysis): 50 %

diethylmethylbenzenediamine:  
Photodegradation : Test Type: Air  
Rate constant: < .00001

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Impact on Sewage Treatment : No data available

**Bioaccumulative potential****Components:**

Glycerol, propoxylated:  
Bioaccumulation : Remarks: Does not bioaccumulate.

Triethylenediamine:  
Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): < 13  
Exposure time: 42 d  
Test substance: Fresh water  
Remarks: Bioaccumulation is unlikely.  
  
Bioconcentration factor (BCF): 3.16

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine):  
Bioaccumulation : Remarks: Bioaccumulation is unlikely.

tris(2-chloro-1-methylethyl) phosphate:  
Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 0.8 - 14  
Exposure time: 42 d  
Test substance: Fresh water  
Method: flow-through test  
  
Bioconcentration factor (BCF): 6.58

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:  
Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 1.95  
Exposure time: 23 d  
Test substance: Fresh water  
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:**

Glycerol, propoxylated:  
Partition coefficient: n-octanol/water : Pow: 0.73 - 1.82 (77 °F / 25 °C)  
pH: > 12

Ethylenediamine, ethoxylated and propoxylated:  
Partition coefficient: n-octanol/water : log Pow: -1.25 - 1.2 (77 °F / 25 °C)  
pH: 12

Triethylenediamine:

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

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine):  
Partition coefficient: n-octanol/water : log Pow: -0.34 (68 °F / 20 °C)  
Method: Partition coefficient

tris(2-chloro-1-methylethyl) phosphate:  
Partition coefficient: n-octanol/water : log Pow: 2.68 (86 °F / 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 (77 °F / 25 °C)  
pH: 7

diethylmethylbenzenediamine:  
Partition coefficient: n-octanol/water : log Pow: 1.17 (77 °F / 25 °C)  
Method: OECD Test Guideline 107

**Mobility in soil**

Mobility : No data available

**Components:**

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

tris(2-chloro-1-methylethyl) phosphate:  
Distribution among environmental compartments : Koc: 576  
Method: Directive 67/548/EEC, Annex V, C.19  
  
Koc: 780  
Method: OECD Test Guideline 106

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

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**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 life with long lasting effects.
- 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.  
Send to a licensed waste management company.  
Dispose of as hazardous waste in compliance with local and  
national regulations.  
Dispose of contents/ container to an approved waste disposal  
plant.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION****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**

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Not regulated as dangerous goods

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 311/312 Hazards** : Skin corrosion or irritation  
 Serious eye damage or eye irritation  
 Respiratory or skin sensitisation  
 Specific target organ toxicity (single or repeated exposure)

**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**

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	: The formulation contains substances listed on the Swiss Inventory, Not 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	: 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	: Not in compliance with the inventory
TSCA	: 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)**

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

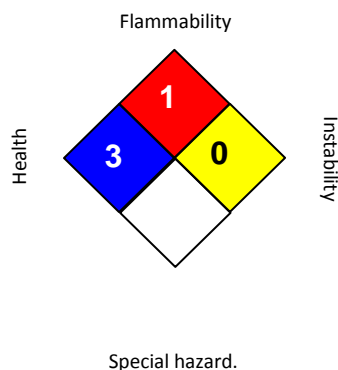
diethylmethylbenzenediamine

68479-98-1



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**SECTION 16. OTHER INFORMATION****Further information****NFPA 704:****HMIS® IV:**

<b>HEALTH</b>	*	<b>3</b>
<b>FLAMMABILITY</b>		<b>1</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>

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.

Revision Date : 05/16/2018

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
 ACGIH / TWA : 8-hour, time-weighted average  
 ACGIH / STEL : Short-term exposure limit

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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.

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# SAFETY DATA SHEET



Enriching lives through innovation

## RIMLINE SA 97030 (STI-03-003-9B H20STOP B)

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