

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® HY 1300 CH

Version 3.0      Revision Date: 29.11.2022      SDS Number: 400001008624      Date of last issue: 06.05.2020  
Date of first issue: 20.11.2018

Print Date 11.12.2023

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : ARADUR® HY 1300 CH  
Unique Formula Identifier (UFI) : WPT0-F0WT-5009-MK3M

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Component used for the manufacture of electrical insulation parts

#### 1.3 Details of the supplier of the safety data sheet

Company : Huntsman Advanced Materials (Europe)BVBA  
Address : Everslaan 45  
3078 Everberg  
Belgium  
Telephone : +41 61 299 20 41  
Telefax : +41 61 299 20 40  
E-mail address of person responsible for the SDS : Global\_Product\_EHS\_AdMat@huntsman.com

#### 1.4 Emergency telephone number

Emergency telephone number : Centres Antipoison et de Toxicovigilance:  
ANGERS: 02 41 48 21 21  
BORDEAUX: 05 56 96 40 80  
LILLE: 0 825 812 822  
LYON: 04 72 11 69 11  
MARSEILLE 04 91 75 25 25  
NANCY: 03 83 32 36 36  
PARIS: 01 40 05 48 48  
RENNES: 02 99 59 22 22  
STRASBOURG: 03 88 37 37 37  
TOULOUSE: 05 61 77 74 47  
EUROPE: +32 35 75 1234  
France ORFILA: +33(0)145425959  
ASIA: +65 6336-6011  
China: +86 20 39377888  
+86 532 83889090  
India: + 91 22 42 87 5333  
Australia: 1800 786 152  
New Zealand: 0800 767 437  
USA: +1 800-424-9300

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**SECTION 2: Hazards identification**


**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H312: Harmful in contact with skin.
Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms : 

Signal word : Danger

Hazard statements : H302 + H312 Harmful if swallowed or in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H361d Suspected of damaging the unborn child.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
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.  
P391 Collect spillage.

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### Hazardous components which must be listed on the label:

Propylidynetrimethanol, propoxylated, reaction products with ammonia  
Amines, polyethylenepoly-, triethylenetetramine fraction  
salicylic acid

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Polyamines

### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Propylidynetrimethanol, propoxylated, reaction products with ammonia	39423-51-3 500-105-6 01-2119556886-20	Acute Tox. 4; H302 Acute Tox. 4; H312 Eye Dam. 1; H318 Aquatic Chronic 2; H411  Acute toxicity estimate  Acute oral toxicity: 550 mg/kg Acute dermal toxicity: 1 000,1 mg/kg	>= 70 - < 90
Amines, polyethylenepoly-, triethylenetetramine fraction	90640-67-8 292-588-2 01-2119487919-13	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 10 - < 20
salicylic acid	69-72-7 200-712-3 607-732-00-5 01-2119486984-17	Acute Tox. 4; H302 Eye Dam. 1; H318 Repr. 2; H361d	>= 3 - < 10

For explanation of abbreviations see section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of 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.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.  
Avoid inhalation, ingestion and contact with skin and eyes.  
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 inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
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.

#### 4.2 Most important symptoms and effects, both acute and delayed

None known.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : Exercise caution when using a high volume water jet as it may scatter and spread fire

#### 5.2 Special hazards arising from the substance or mixture

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

Hazardous combustion products : Ammonia  
Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Refer to protective measures listed in sections 7 and 8.

#### 6.2 Environmental precautions

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.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Neutralise with acid.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal considerations see section 13., See Section 1 for emergency contact information., For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.  
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.  
Do not breathe vapours or spray mist.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : 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. Observe label precautions. Keep in properly labelled containers.
- Advice on common storage : Do not store near acids.
- Further information on storage stability : Stable under normal conditions.
- Recommended storage temperature : 2 - 40 °C

### 7.3 Specific end use(s)

- Specific use(s) : No data available

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Propylidynetrimethanol, propoxylated, reaction products with ammonia	Workers	Inhalation	Long-term systemic effects	14,1 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	1,6 mg/kg bw/day
salicylic acid	Workers	Inhalation	Long-term systemic effects	5 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	5 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	2,3 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	1 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1 mg/kg bw/day
	Consumers	Oral	Acute effects, Short-term exposure	4 mg/kg bw/day
Amines, polyethylenepoly-, triethylenetetramine fraction	Workers	Inhalation	Long-term systemic effects	0,54 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	0,096 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	14 mg/kg bw/day

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Propylidynetrimethanol, propoxylated, reaction products with ammonia	Fresh water	0,004 mg/l
	Intermittent use/release	0,044 mg/l
	Marine water	0 mg/l
	Fresh water sediment	0,022 mg/kg dry weight (d.w.)
	Marine sediment	0,002 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
salicylic acid	Soil	0,002 mg/kg dry weight (d.w.)
	Marine water	0,02 mg/l
	Sewage treatment plant	162 mg/l

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	Fresh water sediment	1,42 mg/kg dry weight (d.w.)
	Marine sediment	0,142 mg/kg dry weight (d.w.)
	Soil	0,166 mg/kg dry weight (d.w.)
	Secondary Poisoning	
Amines, polyethylenepoly-, triethylenetetramine fraction	Fresh water	0,027 mg/l
	Marine water	0,003 mg/l
	Sewage treatment plant	0,13 mg/l
	Fresh water sediment	8,572 mg/kg dry weight (d.w.)
	Marine sediment	0,857 mg/kg dry weight (d.w.)
	Soil	1,25 mg/kg dry weight (d.w.)

### 8.2 Exposure controls

#### Personal protective equipment

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

#### Hand protection

Material : butyl-rubber  
Break through time : > 8 h

Material : Nitrile rubber  
Break through time : 10 - 480 min

Material : Ethyl Vinyl Alcohol Laminate (EVAL)  
Break through time : > 8 h

Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).  
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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



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Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines  
Equipment should conform to EN 14387

Filter type : Combined particulates and ammonia/amines type (K-P)

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : light brown

Odour : amine-like

Odour Threshold : No data is available on the product itself.

pH : 11 (20 °C)  
Concentration: 500 g/l

Melting point/freezing point : No data is available on the product itself.

Boiling point : > 200 °C

Flash point : > 150 °C  
Method: Pensky-Martens closed cup

Flammability (solid, gas) : 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 : < 1 hPa (20 °C)

Relative vapour density : No data is available on the product itself.

Relative density : 1 (25 °C)

Density : 1 g/cm<sup>3</sup> (25 °C)

Solubility(ies)  
Water solubility : partly miscible (20 °C)

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.

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

Decomposition temperature : > 200 °C

Viscosity  
Viscosity, dynamic : 160 - 200 mPa.s (25 °C)

**9.2 Other information**

No data available

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : No hazards to be specially mentioned.

**10.4 Conditions to avoid**

Conditions to avoid : None known.

**10.5 Incompatible materials**

Materials to avoid : Strong acids  
Strong bases  
Strong oxidizing agents

**10.6 Hazardous decomposition products**

Hazardous decomposition products : ammonia, anhydrous  
Aldehydes  
Nitrogen oxides (NOx)  
carbon monoxide  
carbon dioxide  
Ketones

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**SECTION 11: Toxicological information**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity**

**Product:**

Acute oral toxicity : Acute toxicity estimate: 624,28 mg/kg  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 1 213 mg/kg  
Method: Calculation method

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### Components:

#### **Propylidynetrimechanol, propoxylated, reaction products with ammonia:**

Acute oral toxicity : LD50 (Rat, female): 550 mg/kg  
Method: OECD Test Guideline 425

Acute toxicity estimate: 550 mg/kg  
Method: Calculation method

Acute dermal toxicity : LD50 (Rat, male and female): > 1 000 mg/kg  
Method: OECD Test Guideline 402

Acute toxicity estimate: 1 000,1 mg/kg  
Method: Calculation method

#### **Amines, polyethylenepoly-, triethylenetetramine fraction:**

Acute oral toxicity : LD50 (Rat, male and female): 1 716,2 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute dermal toxicity : LD50 (Rabbit, male and female): 1 465,4 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The component/mixture is moderately toxic after single contact with skin.

#### **salicylic acid:**

Acute oral toxicity : LD50 (Rat, male): 891 mg/kg  
Method: OECD Test Guideline 401  
GLP: no  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat, male): > 0,9 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 2 000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

#### Components:

#### **Propylidynetrimechanol, propoxylated, reaction products with ammonia:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Mild skin irritation

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Species : reconstructed human epidermis (RhE)  
Method : OECD Test Guideline 431  
Result : No skin irritation

### **Amines, polyethylenepoly-, triethylenetetramine fraction:**

Species : reconstructed human epidermis (RhE)  
Assessment : Causes burns.  
Method : OECD Test Guideline 435  
Result : Corrosive after 3 minutes to 1 hour of exposure

Species : Rabbit  
Assessment : Causes burns.  
Method : OECD Test Guideline 404  
Result : Corrosive after 3 minutes to 1 hour of exposure

### **salicylic acid:**

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

### **Serious eye damage/eye irritation**

#### **Components:**

#### **Propylidynetrimethanol, propoxylated, reaction products with ammonia:**

Method : OECD Test Guideline 405  
Result : Irreversible effects on the eye

#### **Amines, polyethylenepoly-, triethylenetetramine fraction:**

Species : Rabbit  
Assessment : Risk of serious damage to eyes.  
Method : OECD Test Guideline 405  
Result : Irreversible effects on the eye

#### **salicylic acid:**

Species : Rabbit  
Assessment : Risk of serious damage to eyes.  
Result : Irreversible effects on the eye

### **Respiratory or skin sensitisation**

#### **Components:**

#### **Propylidynetrimethanol, propoxylated, reaction products with ammonia:**

Exposure routes : Skin  
Species : Guinea pig  
Assessment : Did not cause sensitisation on laboratory animals.  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.

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### Amines, polyethylenepoly-, triethylenetetramine fraction:

Exposure routes : Skin  
Species : Guinea pig  
Assessment : Probability or evidence of skin sensitisation in humans  
Method : OECD Test Guideline 406  
Result : Probability or evidence of skin sensitisation in humans

### salicylic acid:

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Skin  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitisation.

### Germ cell mutagenicity

#### Components:

#### Propylidynetrimethanol, propoxylated, reaction products with ammonia:

Genotoxicity in vitro : Test Type: reverse mutation assay  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: unscheduled DNA synthesis assay  
Test system: rat hepatocytes  
Metabolic activation: Metabolic activation  
Method: OECD Test Guideline 482  
Result: negative

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

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection  
Dose: 2.5 mg/kg  
Method: OECD Test Guideline 474  
Result: negative

### Amines, polyethylenepoly-, triethylenetetramine fraction:

Genotoxicity in vitro : Test Type: reverse mutation assay  
Test system: Salmonella typhimurium and E. coli  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: positive  
GLP: yes

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Test Type: Micronucleus test  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 487  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection  
Dose: 0 - 600 mg/kg  
Method: OECD Test Guideline 474  
Result: negative

### salicylic acid:

Genotoxicity in vitro : Test Type: reverse mutation assay  
Test system: Salmonella tryphimurium and E. coli  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
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: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: sister chromatid exchange assay  
Species: Mouse (male)  
Cell type: Bone marrow  
Application Route: Oral  
Dose: 350 mg/kg  
Method: OPPTS 870.5915  
Result: negative

Test Type: sister chromatid exchange assay  
Species: Mouse (male)  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection  
Dose: 20/50/100 mg/kg  
Method: OPPTS 870.5915  
Result: negative

Species: Mouse (male)  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection

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Dose: 50/100/200 mg/kg  
Method: OECD Test Guideline 475  
Result: negative

Species: Mouse (male)  
Cell type: Bone marrow  
Application Route: Oral  
Dose: 350 mg/kg  
Method: OECD Test Guideline 475  
Result: negative

### Carcinogenicity

#### Components:

##### **Amines, polyethylenepoly-, triethylenetetramine fraction:**

Species : Mouse, male  
Application Route : Dermal  
NOAEL :  $\geq 50$  mg/kg bw/day  
Method : OECD Test Guideline 451  
Result : negative

Species : Mouse, male  
Application Route : Dermal  
Exposure time : 104 weeks  
NOAEL :  $\geq 20$  mg/kg bw/day  
Method : OECD Test Guideline 451  
Result : negative

##### **salicylic acid:**

Species : Rat, male and female  
Application Route : Oral  
Exposure time : 24 month(s)  
Dose : 0,50,250,500,1000 mg/kg  
Frequency of Treatment : 7 daily  
NOAEL : 500 mg/kg bw/day  
Result : negative  
Remarks : Information given is based on data obtained from similar substances.

### Reproductive toxicity

#### Components:

##### **Propylidynetrimethanol, propoxylated, reaction products with ammonia:**

Effects on fertility : Test Type: Reproduction / Developmental Toxicity Screening Test  
Species: Rat, male and female  
Application Route: Dermal  
Dose: 0, 10, 50, 100 mg/kg  
General Toxicity - Parent: NOAEL:  $> 100$  mg/kg body weight  
General Toxicity F1: NOAEL:  $> 100$  mg/kg body weight  
Method: OECD Test Guideline 421  
Result: No effects on fertility and early embryonic development were detected.

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Effects on foetal development : Test Type: Pre-natal  
Species: Rat, female  
Application Route: Oral  
Dose: 0/10/100/125/200 milligram per kilogram  
Duration of Single Treatment: 16 d  
General Toxicity Maternal: NOEL: 125 mg/kg body weight  
Developmental Toxicity: NOEL: 125 mg/kg body weight  
Method: OECD Test Guideline 414

### Amines, polyethylenepoly-, triethylenetetramine fraction:

Effects on foetal development : Test Type: Pre-natal  
Species: Rat  
Application Route: Oral  
Dose: 75/325/750 mg/kg bw/day  
Duration of Single Treatment: 10 d  
General Toxicity Maternal: NOAEL: >= 750 mg/kg body weight  
Developmental Toxicity: NOAEL: >= 750 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

Test Type: Pre-natal  
Species: Rabbit  
Application Route: Dermal  
Dose: 5/50/125 mg/kg bw/day  
Duration of Single Treatment: 13 d  
General Toxicity Maternal: NOAEL: 50 mg/kg body weight  
Developmental Toxicity: NOAEL: >= 125 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

Reproductive toxicity - Assessment : The reprotoxic effects of Triethylenetetramine (TETA) are under further evaluation as part of the EU REACH program due in part to the aminoethyl ethanolamine (AEEA) content.

### salicylic acid:

Effects on foetal development : Species: Rabbit, female  
Application Route: Oral  
Duration of Single Treatment: 3 - 13 d  
General Toxicity Maternal: NOAEL: 125 mg/kg body weight  
Developmental Toxicity: NOAEL: 250 mg/kg body weight  
Method: OECD Test Guideline 414  
Remarks: Information given is based on data obtained from similar substances.

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

### STOT - single exposure

No data available

### STOT - repeated exposure

No data available



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### Repeated dose toxicity

#### Components:

#### **Propylidynetrimethanol, propoxylated, reaction products with ammonia:**

Species : Rat, male and female  
NOAEL :  $\geq 100$  mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Dose : 0, 10, 75, 100, 150, 200 mg/kg  
Method : OECD Test Guideline 408

Species : Rat, male and female  
NOAEL :  $> 160$  mg/kg  
Application Route : Dermal  
Exposure time : 90 d 6 h  
Number of exposures : 5 days/week  
Dose : 0/16/50/160 mg/kg bw7day  
Method : OECD Test Guideline 411

#### **Amines, polyethylenepoly-, triethylenetetramine fraction:**

Species : Rat, male and female  
NOAEL : 350 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Number of exposures : 7 d  
Dose : 100/350/1000 mg/kg bw/day  
Method : OECD Test Guideline 407  
Target Organs : Lungs  
Remarks : Information given is based on data obtained from similar substances.

Species : Dog, male and female  
NOAEL : 125 mg/kg  
Application Route : Oral  
Target Organs : Lungs  
Remarks : Information given is based on data obtained from similar substances.

Species : Dog, male and female  
NOAEL : 50 mg/kg  
Application Route : Oral  
Method : Subchronic toxicity  
Remarks : Information given is based on data obtained from similar substances.

Species : Rat, male and female  
NOAEL : 50 mg/kg  
Application Route : Oral  
Exposure time : 26 weeks  
Dose : 50/175/600 mg/kg bw/day  
Method : OECD Test Guideline 408  
Target Organs : Lungs  
Remarks : Information given is based on data obtained from similar substances.

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Species : Mouse, male and female  
NOAEL : 92 mg/kg, 600 ppm  
Application Route : Oral  
Exposure time : 120/600/3000 ppm  
Method : OECD Test Guideline 408  
Remarks : Information given is based on data obtained from similar substances.

### salicylic acid:

Species : Rat, male and female  
NOAEL : 50 mg/kg  
Application Route : oral (feed)  
Exposure time : 2 yr  
Number of exposures : 7 d  
Dose : 0, 50, 250, 500, 1000 mg/kg bw  
Method : Chronic toxicity  
Remarks : Information given is based on data obtained from similar substances.

Species : Rat, female  
NOEC : 700 mg/m<sup>3</sup>  
Application Route : inhalation (vapour)  
Exposure time : 7 h 4 Weeks  
Number of exposures : 5 days/week  
Dose : 635 mg/m<sup>3</sup>  
Method : OECD Test Guideline 412  
GLP : no  
Remarks : Information given is based on data obtained from similar substances.

### Aspiration toxicity

No data available

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

### Experience with human exposure

No data available

### Toxicology, Metabolism, Distribution

No data available

### Neurological effects

No data available

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### Further information

No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### **Propylidynetrimehanol, propoxylated, reaction products with ammonia:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 203  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 13 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 202  
GLP: yes
- Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): 4,4 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
GLP: yes
- NOEC (Selenastrum capricornutum (green algae)): 1 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
GLP: yes
- Toxicity to microorganisms : EC50 (activated sludge): ca. 1 000 mg/l  
Exposure time: 0,5 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 209  
GLP: yes

#### **Amines, polyethylenepoly-, triethylenetetramine fraction:**

- Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 570 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Test substance: Fresh water  
Method: Directive 67/548/EEC, Annex V, C.1.
- LC50 (Leuciscus idus (Golden orfe)): 200 - 500 mg/l  
Exposure time: 96 h

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- LC50 (Pimephales promelas (fathead minnow)): 330 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water  
Method: Fish Acute Toxicity Test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 31,1 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: Directive 67/548/EEC, Annex V, C.2.
- Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): 20 mg/l  
Exposure time: 72 h  
Test Type: semi-static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201
- EC10 (Selenastrum capricornutum (green algae)): 1,34 mg/l  
Exposure time: 72 h  
Test Type: semi-static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201
- Toxicity to microorganisms : NOEC (Bacteria):  $\geq$  100 mg/l  
Exposure time: 28 d  
Method: OECD Test Guideline 216
- EC50 (Bacteria): > 100 mg/l  
Exposure time: 28 h  
Method: OECD Test Guideline 216
- EC50 (Bacteria): 15,7 mg/l  
Exposure time: 2 h  
Test Type: static test  
Test substance: Fresh water
- NOEC (Bacteria): 1,3 mg/l  
Exposure time: 2 h  
Test Type: static test  
Test substance: Fresh water
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 1,9 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Test substance: Fresh water  
Method: OECD Test Guideline 202
- Toxicity to soil dwelling organisms : NOEC: ca. 62,5 mg/kg  
Exposure time: 56 d  
Species: Eisenia fetida (earthworms)

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Method: OECD Test Guideline 222

EC50: > 1 000 mg/kg  
Exposure time: 56 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 222

### Ecotoxicology Assessment

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

#### salicylic acid:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1 370 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 203  
GLP: no  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 870 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC (Pseudomonas putida): 162 mg/l  
Exposure time: 16 h  
Test Type: static test  
Test substance: Fresh water  
Method: ISO Method, other  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202

### 12.2 Persistence and degradability

#### Components:

#### Propylidynetrimethanol, propoxylated, reaction products with ammonia:

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Not readily biodegradable.  
Biodegradation: < 5 %

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Exposure time: 28 d  
Method: OECD Test Guideline 301F

Stability in water : Degradation half life (DT50): > 1 yr (25 °C)  
pH: 7,5  
Method: OECD Test Guideline 111  
Remarks: Fresh water

### Amines, polyethylenepoly-, triethylenetetramine fraction:

Biodegradability : Inoculum: activated sludge  
Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 162 d  
Method: OECD Test Guideline 301D  
Test substance: Fresh water

Test Type: aerobic  
Inoculum: activated sludge  
Result: Not inherently biodegradable.  
Biodegradation: 20 %  
Related to: Dissolved organic carbon (DOC)  
Exposure time: 84 d  
Method: OECD Test Guideline 302A  
Test substance: Fresh water

### salicylic acid:

Biodegradability : Test Type: aerobic  
Inoculum: Mixture  
Concentration: 100 mg/l  
Result: Readily biodegradable.  
Biodegradation: 88,1 %  
Related to: Biochemical oxygen demand  
Exposure time: 14 d  
Method: OECD Test Guideline 301C  
GLP: No information available.

Test Type: aerobic  
Inoculum: activated sludge, non-adapted  
Result: Inherently biodegradable.  
Biodegradation: > 90 %  
Related to: Dissolved organic carbon (DOC)  
Exposure time: 4 d  
Method: Directive 67/548/EEC, Annex V, C.9  
GLP: no

## 12.3 Bioaccumulative potential

### Components:

#### Propylidynetrimethanol, propoxylated, reaction products with ammonia:

Partition coefficient: n- : log Pow: -1,13 (20 - 25 °C)  
octanol/water            pH: 12,7  
Method: Partition coefficient

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### **Amines, polyethylenepoly-, triethylenetetramine fraction:**

Partition coefficient: n-octanol/water : log Pow: -2,08 - 2,90 (20 °C)  
Method: QSAR

### **salicylic acid:**

Partition coefficient: n-octanol/water : log Pow: 2,25 (25 °C)  
Method: OECD Test Guideline 117

## 12.4 Mobility in soil

### Components:

### **Amines, polyethylenepoly-, triethylenetetramine fraction:**

Distribution among environmental compartments : Koc: 3162,28, log Koc: 3,5  
Method: OECD Test Guideline 106

### **salicylic acid:**

Distribution among environmental compartments : Koc: 35  
Method: OECD Test Guideline 121

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Endocrine disrupting properties

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

## 12.7 Other adverse effects

### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of contents and container in accordance with all local, regional, national and international regulations.  
Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with

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chemical or used container.

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

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADN : UN 2735  
ADR : UN 2735  
RID : UN 2735  
IMDG : UN 2735  
IATA : UN 2735

#### 14.2 UN proper shipping name

ADN : POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
(TRIETHYLENETETRAMINE)  
ADR : POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
(TRIETHYLENETETRAMINE)  
RID : POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
(TRIETHYLENETETRAMINE)  
IMDG : POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
(TRIETHYLENETETRAMINE)  
IATA : Polyamines, liquid, corrosive, n.o.s.  
(TRIETHYLENETETRAMINE)

#### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 8	
ADR	: 8	
RID	: 8	
IMDG	: 8	
IATA	: 8	

#### 14.4 Packing group

ADN  
Packing group : II  
Classification Code : C7  
Hazard Identification Number : 80  
Labels : 8  
ADR  
Packing group : II  
Classification Code : C7  
Hazard Identification Number : 80



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Labels : 8  
Tunnel restriction code : (E)

### RID

Packing group : II  
Classification Code : C7  
Hazard Identification Number : 80  
Labels : 8

### IMDG

Packing group : II  
Labels : 8  
EmS Code : F-A, S-B

### IATA (Cargo)

Packing instruction (cargo aircraft) : 855  
Packing instruction (LQ) : Y840  
Packing group : II  
Labels : Corrosive

### IATA (Passenger)

Packing instruction (passenger aircraft) : 851  
Packing instruction (LQ) : Y840  
Packing group : II  
Labels : Corrosive

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes(TRIMETHYLOLPROPANE POLYOXYPROPYLENE TRIAMINE)

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

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REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E2 ENVIRONMENTAL HAZARDS

Occupational Illnesses (R-461-3, France) : Not applicable

Installations classified for the protection of the environment (Environment Code R511-9) : 4511

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

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

AIIC : 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

TSCA : All substances listed as active on the TSCA inventory

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### Inventories

AICS (Australia), AIIC (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

### 15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

## SECTION 16: Other information

### Full text of H-Statements

H302 : Harmful if swallowed.  
H312 : Harmful in contact with skin.  
H314 : Causes severe skin burns and eye damage.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H361d : Suspected of damaging the unborn child.  
H411 : Toxic to aquatic life with long lasting effects.  
H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Dam. : Serious eye damage  
Repr. : Reproductive toxicity  
Skin Corr. : Skin corrosion  
Skin Sens. : Skin sensitisation

### Further information

#### Classification of the mixture:

Acute Tox. 4      H302  
Acute Tox. 4      H312  
Skin Corr. 1B      H314  
Eye Dam. 1      H318  
Skin Sens. 1      H317  
Repr. 2      H361d  
Aquatic Chronic 2      H411

#### Classification procedure:

Calculation method  
Calculation method  
Calculation method  
Calculation method  
Calculation method  
Calculation method  
Calculation method

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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.

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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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