

## ARADUR® HY 2966

Version 1.1      Revision Date: 08.10.2018      SDS Number: 400001010477      Date of last issue: 26.07.2017  
Date of first issue: 26.07.2017

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

#### 1.1 Product identifier

Trade name : ARADUR® HY 2966

#### 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 : 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

### 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.
Skin corrosion, Sub-category 1A	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 1B	H360F: May damage fertility.
Specific target organ toxicity - single	H335: May cause respiratory irritation.

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exposure, Category 3, Respiratory system

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 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H360F May damage fertility.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face 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.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P391 Collect spillage.

Hazardous components which must be listed on the label:

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine

4,4'-isopropylidenediphenol

#### Additional Labelling:

Restricted to professional users.

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### 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Mixture

#### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine	25513-64-8 247-063-2 01-2119560598-25	Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317	>= 60 - < 100
4,4'-Isopropylidenediphenol	80-05-7 201-245-8 604-030-00-0 01-2119457856-23	Eye Dam. 1; H318 Skin Sens. 1; H317 Repr. 1B; H360F STOT SE 3; H335 Aquatic Chronic 2; H411	>= 30 - < 60

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- If inhaled : Move to fresh air.  
Keep patient warm and at rest.  
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 : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Seek medical advice.
- If swallowed : Rinse mouth with water.  
Consult a physician if necessary.

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

None known.

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

Treatment : No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

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

Unsuitable extinguishing media : None known.

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

Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

### 5.3 Advice for firefighters

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

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.

## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Do not allow contact with soil, surface or ground water.

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

Methods for cleaning up : 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

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

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

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or 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.

Advice on common storage : For incompatible materials please refer to Section 10 of this SDS.

Recommended storage temperature : 2 - 40 °C

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
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4,4'-isopropylidenediph enol	80-05-7	TWA (inhalable dust)	10 mg/m3	GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
		TWA (inhalable fraction)	2 mg/m3	2017/164/EU
Further information	Indicative			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine	Consumers	Oral	Long-term systemic effects	0.05 mg/kg

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

Substance name	Environmental Compartment	Value
2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine	Fresh water	0.102 mg/l
Remarks:	Assessment Factors	
	Marine water	0.01 mg/l
	Assessment Factors	
	Sewage treatment plant	72 mg/l
	Assessment Factors	
	Fresh water sediment	0.662 mg/kg
	Marine sediment	0.062 mg/kg

**8.2 Exposure controls**

**Personal protective equipment**

Eye protection : Safety glasses

Hand protection

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

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

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

Skin and body protection : Protective suit

Respiratory protection : Use respiratory protection unless adequate local exhaust

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ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

### SECTION 9: Physical and chemical properties

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

Appearance	: liquid
Colour	: yellow
Odour	: ammoniacal
Odour Threshold	: No data is available on the product itself.
pH	: 11.3 (20 °C) Concentration: 500 g/l
Melting point/freezing point	: No data available
Boiling point	: > 200 °C
Flash point	: > 200 °C Method: Pensky-Martens closed cup, closed cup
Evaporation rate	: No data is available on the product itself.
Flammability (solid, gas)	: No data is available on the product itself.
Burning rate	: 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	: 0.008 hPa (20 °C)
Relative vapour density	: No data is available on the product itself.
Relative density	: No data is available on the product itself.
Density	: 0.96 - 0.97 g/cm <sup>3</sup> (25 °C)
Solubility(ies)	
Water solubility	: completely miscible
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 : 300 - 600 mPa.s (25 °C)

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

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

### 9.2 Other information

Molecular weight : No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under normal conditions.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Burning produces noxious and toxic fumes.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Acute oral toxicity - Product : LD50 (Rat): ca. 1,500 mg/kg

#### Components:

4,4'-isopropylidenediphenol:  
Acute inhalation toxicity : LC50 (Rat, male and female): > 170 mg/m<sup>3</sup>

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Exposure time: 6 h  
Test atmosphere: dust/mist

### **Components:**

4,4'-isopropylidenediphenol:  
Acute dermal toxicity : LD50 (Rabbit, male): ca. 6,400 mg/kg

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

### **Skin corrosion/irritation**

#### **Components:**

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:  
Species: Rabbit  
Result: Corrosive after 3 minutes or less of exposure

4,4'-isopropylidenediphenol:  
Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation

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

#### **Components:**

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:  
Species: Rabbit  
Method: OECD Test Guideline 405  
Result: Corrosive

4,4'-isopropylidenediphenol:  
Species: Rabbit  
Method: OECD Test Guideline 405  
Result: Irreversible effects on the eye

### **Respiratory or skin sensitisation**

#### **Product:**

Exposure routes: Skin  
Species: Guinea pig  
Result: Causes sensitisation.

Assessment: No data available

### **Germ cell mutagenicity**

#### **Components:**

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:  
Genotoxicity in vitro : Test Type: Ames test

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Test system: Salmonella typhimurium  
Concentration: 5000 ug/plate  
Metabolic activation: with and without metabolic activation  
Method: Directive 67/548/EEC, Annex, B.13/14  
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: Chinese hamster ovary cells  
Concentration: 2 mg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

4,4'-isopropylidenediphenol:  
Genotoxicity in vitro : Metabolic activation: with and without metabolic activation  
Result: negative

**Components:**

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:  
Genotoxicity in vivo : Test species: Chinese hamster (male and female)  
Cell type: Bone marrow  
Application Route: Oral  
Dose: 825 - 1000 mg/kg  
Method: OECD Test Guideline 474  
Result: negative

Test Type: In vivo micronucleus test  
Test species: Mouse (male and female)  
Application Route: Oral  
Dose: 850 - 1000 mg/kg  
Method: OECD Test Guideline 474  
Result: negative

4,4'-isopropylidenediphenol:  
Genotoxicity in vivo : Method: OECD Test Guideline 474  
Result: negative

**Carcinogenicity**

**Components:**



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4,4'-isopropylidenediphenol:  
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

### STOT - repeated exposure

No data available

### Repeated dose toxicity

#### Components:

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:  
Species: Rat, male and female  
NOAEL: 10  
Application Route: Ingestion  
Exposure time: 13 Weeks Number of exposures: Daily  
Dose: 10, 60, 180mg/kg bw  
Target Organs: Liver

Species: Rat, male and female  
LOAEL: 60  
Application Route: Ingestion  
Exposure time: 13 Weeks Number of exposures: Daily  
Dose: 10, 60, 180mg/kg bw  
Target Organs: Liver

4,4'-isopropylidenediphenol:  
Species: Dog, male and female  
NOEC: 75 mg/kg, 10  
Application Route: Ingestion  
Test atmosphere: dust/mist  
Exposure time: 2,160 h Number of exposures: 7 d  
Method: Subchronic toxicity

Species: Rat, male and female  
LOAEL: 600 mg/kg  
Application Route: Ingestion  
Exposure time: 672 h Number of exposures: 7 d  
Method: Subchronic toxicity

Repeated dose toxicity - : No data available  
Assessment

### Aspiration toxicity

No data available

### Experience with human exposure

General Information: No data available

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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**

Ingestion:                      No data available

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Components:**

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:

Toxicity to fish                      : LC50 (Leuciscus idus (Golden orfe)): 174 mg/l  
Exposure time: 48 h  
Method: DIN 38412

Toxicity to daphnia and other      : EC50 (Daphnia magna (Water flea)): 31.5 mg/l  
aquatic invertebrates              Exposure time: 24 h  
Method: DIN 38412

Toxicity to algae                      : ErC50 (Pseudokirchneriella subcapitata (algae)): 43.5 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (algae)): 37.1 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (algae)): 16 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

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- Toxicity to microorganisms : IC50 (*Pseudomonas putida*): 89 mg/l  
Exposure time: 17 h
- Toxicity to fish (Chronic toxicity) : NOEC: 10.9 mg/l  
Exposure time: 30 d  
Species: *Brachydanio rerio* (zebrafish)  
Method: OECD Test Guideline 210
- Lowest Observed Effect Concentration: 10.9 mg/l  
Exposure time: 30 d  
Species: *Brachydanio rerio* (zebrafish)  
Method: OECD Test Guideline 210
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1.02 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Method: OECD Test Guideline 211
- Lowest Observed Effect Concentration: 1.02 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Method: OECD Test Guideline 211
- Toxicity to soil dwelling organisms : NOEC:  $\geq 1,000$  mg/kg  
Exposure time: 56 d  
Species: *Eisenia fetida* (earthworms)  
Method: OECD Test Guideline 222
- EC50:  $\geq 1,000$  mg/kg  
Exposure time: 56 d  
Species: *Eisenia fetida* (earthworms)  
Method: OECD Test Guideline 222
- 4,4'-isopropylidenediphenol:  
Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 7.5 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 : 3.9 - 10.2 mg/l  
Exposure time: 48 h
- (*Ceriodaphnia dubia* (Water flea)):
- Toxicity to algae : EC50 (*Selenastrum capricornutum* (green algae)): 2.5 - 3.1 mg/l  
Exposure time: 96 h
- Toxicity to fish (Chronic toxicity) : NOEC: 0.016 mg/l  
Exposure time: 444 d  
Species: *Pimephales promelas* (fathead minnow)  
Test Type: flow-through test  
Test substance: Fresh water  
Method: EPA OPPTS 850.1500  
Remarks: Toxic to aquatic organisms.

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M-Factor (Chronic aquatic toxicity) : 1

Ecotoxicology Assessment  
Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

#### Components:

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:

Biodegradability : Inoculum: activated sludge  
Concentration: 11.4 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 7 %  
Exposure time: 28 d

4,4'-isopropylidenediphenol:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 1 - 2 %  
Exposure time: 28 d

### 12.3 Bioaccumulative potential

#### Components:

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:

Partition coefficient: n-octanol/water : log Pow: -0.3 (25 °C)  
Method: OECD Test Guideline 117

### 12.4 Mobility in soil

No data available

### 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 Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Can be landfilled or incinerated, when in compliance with local regulations.  
Where possible recycling is preferred to disposal or incineration.  
Send to a licensed waste management company.



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**14.1 UN number** : UN 3267  
**14.2 UN proper shipping name** : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
(TRIMETHYLHEXAMETHYLENEDIAMINE, 4,4'-ISOPROPYLIDENEDIPHENOL)  
**14.3 Transport hazard class(es)** : 8  
**14.4 Packing group** : III  
Labels : 8  
**14.5 Environmental hazards**  
Environmentally hazardous : no

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**  
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 - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : bisphenol A  
REACH - List of substances subject to authorisation (Annex XIV) : Not applicable  
REACH - List of substances subject to authorisation - Future sunset date : Not applicable

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  
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

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

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

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

### Inventories

AICS (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 have been carried out for these substances.

## SECTION 16: Other information

### Full text of H-Statements

H302 : Harmful if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H335 : May cause respiratory irritation.  
H360F : May damage fertility.  
H411 : Toxic 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  
STOT SE : Specific target organ toxicity - single exposure  
2017/164/EU : Commission Directive (EU) 2017/164 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
2017/164/EU / TWA : Limit Value - eight hours  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

### Further information

#### Classification of the mixture:

Acute Tox. 4	H302
Skin Corr. 1A	H314
Eye Dam. 1	H318

#### Classification procedure:

Based on product data or assessment
Calculation method
Calculation method

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Skin Sens. 1	H317	Calculation method
Repr. 1B	H360F	Calculation method
STOT SE 3	H335	Calculation method
Aquatic Chronic 2	H411	Calculation method

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