

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® 2022-1 A

Version 1.2      Revision Date: 24.01.2022      SDS Number: 400000001217      Date of last issue: 05.07.2017  
Date of first issue: 17.09.2015

Print Date 20.09.2023

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

#### 1.1 Product identifier

Trade name : ARALDITE® 2022-1 A  
Unique Formula Identifier (UFI) : 5Y09-N0CN-D004-XR4Q

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

Use of the Substance/Mixture : Adhesives

#### 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 : +40 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  
National Poisons Information Centre (NPIC): + 353 (01)  
8092166 (8am-10pm)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.

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Specific target organ toxicity - single exposure, Category 3, Respiratory system

H335: May cause respiratory irritation.

Chronic aquatic toxicity, Category 3

H412: Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

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

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P261 Avoid breathing mist or vapours.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
**Response:**  
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.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

methyl methacrylate  
methacrylic acid  
maleic 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.

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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

##### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
methyl methacrylate	80-62-6 201-297-1 607-035-00-6 01-2119452498-28	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)	>= 50 - < 70
methacrylic acid	79-41-4 201-204-4 607-088-00-5 01-2119463884-26	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 3; H311 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)  specific concentration limit STOT SE 3; H335 >= 1 % Skin Corr. 1A; H314 >= 10 % Skin Irrit. 2; H315 1 - < 10 % Eye Dam. 1; H318 >= 3 % Eye Irrit. 2A; H319 1 - < 3 %	>= 3 - < 5
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4 01-2119555270-46	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1	>= 1 - < 2,5

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		M-Factor (Chronic aquatic toxicity): 1	
maleic acid	110-16-7 203-742-5 607-095-00-3 01-2119488705-25	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 (Kidney)  specific concentration limit Skin Sens. 1; H317 >= 0,1 %	>= 1 - < 10
$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide	80-15-9 201-254-7 617-002-00-8 01-2119475796-19	Org. Perox. E; H242 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT RE 2; H373 Aquatic Chronic 2; H411  specific concentration limit Skin Corr. 1B; H314 >= 10 % Skin Irrit. 2; H315 3 - < 10 % Eye Dam. 1; H318 3 - < 10 % Eye Irrit. 2; H319 1 - < 3 % STOT SE 3; H335 >= 1 %  Acute toxicity estimate  Acute oral toxicity: 382 mg/kg	>= 0,25 - < 1

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.  
Consult a physician.

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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 : Consult a physician after significant exposure.  
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.  
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.

## 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 : Exercise caution when using a high volume water jet as it may

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media 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 : Carbon oxides  
Sulphur oxides  
Hydrogen chloride

### 5.3 Advice for firefighters

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

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.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Refer to protective measures listed in sections 7 and 8.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 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 : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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### 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 formation of aerosol.  
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.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
- 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 : No smoking. 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 : For incompatible materials please refer to Section 10 of this SDS.
- Recommended storage temperature : 2 - 8 °C
- Further information on storage stability : Stable under normal conditions.

### 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****Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
methyl methacrylate	80-62-6	TWA	50 ppm	2009/161/EU
Further information	Indicative			
		STEL	100 ppm	2009/161/EU
Further information	Indicative			
		OELV - 8 hrs (TWA)	50 ppm	IE OEL
Further information	Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis			
		OELV - 15 min (STEL)	100 ppm	IE OEL
Further information	Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis			
methacrylic acid	79-41-4	OELV - 8 hrs (TWA)	20 ppm 70 mg/m <sup>3</sup>	IE OEL
		OELV - 15 min (STEL)	40 ppm 140 mg/m <sup>3</sup>	IE OEL
2,6-di-tert-butyl-p-cresol	128-37-0	OELV - 8 hrs (TWA)	2 mg/m <sup>3</sup>	IE OEL
Silicon, amorphous	112945-52-5	OELV - 8 hrs (TWA) (Respirable dust)	2,4 mg/m <sup>3</sup> (Silica)	IE OEL
		OELV - 8 hrs (TWA) (inhalable dust)	6 mg/m <sup>3</sup> (Silica)	IE OEL

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

Substance name	End Use	Exposure routes	Potential health effects	Value
2,6-di-tert-butyl-p-cresol	Workers	Inhalation	Long-term systemic effects	3,5 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	0,5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,86 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	0,25 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,25 mg/kg bw/day
	methacrylic acid	Workers	Inhalation	Long-term systemic effects
Workers		Inhalation	Long-term local effects	88 mg/m <sup>3</sup>



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	Workers	Dermal	Long-term systemic effects	4,25 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	6,3 mg/m3
	Consumers	Inhalation	Long-term local effects	6,55 mg/m3
	Consumers	Dermal	Long-term systemic effects	2,55 mg/kg bw/day
Silicon, amorphous	Workers	Inhalation	Long-term systemic effects	4 mg/m3

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

Substance name	Environmental Compartment	Value
2,6-di-tert-butyl-p-cresol	Fresh water	0,199 µg/l
	Remarks:Assessment Factors	
	Marine water	0,02 µg/l
	Remarks:Assessment Factors	
	Sewage treatment plant	0,17 mg/l
	Remarks:Assessment Factors	
	Fresh water sediment	0,0996 mg/kg dry weight (d.w.)
	Remarks:Equilibrium method	
	Marine sediment	0,00996 mg/kg dry weight (d.w.)
	Remarks:Equilibrium method	
	Soil	0,04769 mg/kg dry weight (d.w.)
	Remarks:Equilibrium method	
methacrylic acid	Oral	8,33 mg/kg
	Fresh water	0,82 mg/l
	Remarks:Assessment Factors	
	Marine water	0,82 mg/l
	Remarks:Assessment Factors	
	Freshwater - intermittent	0,82 mg/l
	Remarks:Assessment Factors	
	Sewage treatment plant	10 mg/l
	Remarks:Assessment Factors	
	Soil	1,2 mg/kg
	Remarks:Equilibrium method	

## 8.2 Exposure controls

### Personal protective equipment

Eye 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

Material : Ethyl Vinyl Alcohol Laminate (EVAL)

Break through time : > 8 h

Material : Nitrile rubber

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Break through time : 10 - 480 min

Remarks : 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.

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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : paste

Colour : off-white

Odour : acrylic-like

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

pH : substance/mixture is non-soluble (in water)

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

Boiling point/boiling range : > 100 °C  
Method: estimated

Flash point : 10 °C  
Method: estimated, 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 : No data is available on the product itself.

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

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

Density : 1,01 - 1,02 g/cm<sup>3</sup> (23 °C)

Solubility(ies)  
Water solubility : insoluble

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.

Decomposition temperature : No data is available on the product itself.

Viscosity : No data is available on the product itself.

### 9.2 Other information

No data available

## 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 : Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : None known.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide  
carbon monoxide

## 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: > 2 000 mg/kg  
Method: Calculation method

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Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2 000 mg/kg  
Method: Calculation method

### Components:

#### **methyl methacrylate:**

Acute oral toxicity : LD50 (Rat): 7 900 - 9 400 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 29,8 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Directive 67/548/EEC, Annex V, B.2.

Acute dermal toxicity : LD50 (Rabbit, male): > 5 000 mg/kg  
Method: OECD Test Guideline 402

#### **methacrylic acid:**

Acute oral toxicity : LD50 (Rat, male): 1 320 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 and female): 7,1 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit): 500 - 1 000 mg/kg  
GLP: no  
Assessment: The component/mixture is toxic after single contact with skin.

#### **2,6-di-tert-butyl-p-cresol:**

Acute oral toxicity : LD50 (Rat, male and female): > 6 000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity

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

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### maleic acid:

Acute oral toxicity : LD50 (Rat, male and female): 2 870 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The component/mixture is low toxic after single ingestion.

Acute dermal toxicity : LD50 (Rabbit, female): 2 620 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The component/mixture is moderately toxic after single contact with skin.

### $\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide:

Acute oral toxicity : LD50 (Rat): 382 mg/kg

Acute toxicity estimate: 382 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact with skin.

### Skin corrosion/irritation

#### Components:

#### methyl methacrylate:

Species : Rabbit  
Method : OPPTS 870.2500  
Result : Skin irritation

#### methacrylic acid:

Species : Rabbit  
Assessment : Causes severe burns.  
Method : OECD Test Guideline 404  
Result : Extremely corrosive and destructive to tissue.  
GLP : yes

#### 2,6-di-tert-butyl-p-cresol:

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

#### maleic acid:

Species : Rabbit  
Assessment : Mild skin irritant  
Method : OECD Test Guideline 404  
Result : Irritating to skin.

#### $\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide:

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Result : Causes burns.

### Serious eye damage/eye irritation

#### Components:

##### methacrylic acid:

Species : Rabbit  
Assessment : Risk of serious damage to eyes.  
Method : Draize Test  
Result : Irreversible effects on the eye  
GLP : no

##### 2,6-di-tert-butyl-p-cresol:

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

##### maleic acid:

Species : Rabbit  
Assessment : Corrosive  
Method : OECD Test Guideline 405  
Result : Corrosive

##### $\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide:

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

### Respiratory or skin sensitisation

#### Components:

##### methyl methacrylate:

Exposure routes : Skin  
Species : Mouse  
Assessment : May cause sensitisation by skin contact.  
Method : OECD Test Guideline 429  
Result : May cause sensitisation by skin contact.

##### methacrylic acid:

Test Type : Buehler Test  
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.

##### 2,6-di-tert-butyl-p-cresol:

Exposure routes : Skin  
Species : Humans  
Result : Does not cause skin sensitisation.

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### maleic acid:

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

### Germ cell mutagenicity

#### Components:

#### **methyl methacrylate:**

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Method: OECD Test Guideline 471  
Result: negative

#### **methacrylic acid:**

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

Genotoxicity in vivo : Test Type: in vivo assay  
Species: Rat (male)  
Cell type: Somatic  
Application Route: Inhalation  
Exposure time: 2 h  
Dose: 0.4, 1.6, 2.8 and 4 mg/L  
Method: OECD Test Guideline 475  
Result: Not classified due to inconclusive data.  
GLP: no

Test Type: dominant lethal test  
Species: Mouse (male)  
Application Route: Inhalation  
Exposure time: 6 h  
Dose: 0.405, 4.05 and 36.45 mg/L  
Method: OECD Test Guideline 478  
Result: negative  
GLP: no

#### **2,6-di-tert-butyl-p-cresol:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Result: negative

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

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Genotoxicity in vivo : Application Route: Intraperitoneal injection  
Dose: 75 mg/kg  
Result: negative

Application Route: Oral  
Exposure time: 9 Months  
Dose: ca 750 mg/kg  
Result: negative

### maleic acid:

Genotoxicity in vitro : 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

### Carcinogenicity

#### Components:

#### **methyl methacrylate:**

Species : Rat, male and female  
Application Route : Oral  
Exposure time : 2 Years  
Dose : 6, 60, 2000 ppm  
Frequency of Treatment : once daily  
NOAEL : 90,3 mg/kg bw/day  
Result : negative

#### **methacrylic acid:**

Species : Rat, male and female  
Application Route : inhalation (vapour)  
Exposure time : 102 weeks  
Frequency of Treatment : 5 days/week  
NOAEL :  $\geq 2,05$  mg/kg body weight  
Method : OECD Test Guideline 451

Species : Mouse, male and female  
Application Route : inhalation (vapour)  
Exposure time : 102 weeks  
Dose : ca. 2.05 and 4.1 mg/L  
Frequency of Treatment : 5 days/week  
LOAEL : ca. 2,05 mg/l  
Method : OECD Test Guideline 451

#### **2,6-di-tert-butyl-p-cresol:**

Species : Rat, male and female  
Application Route : Oral  
Result : negative

#### **maleic acid:**



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Species : Rat, male and female  
Application Route : Oral  
Exposure time : 2 years  
NOAEL :  $\geq 100$  mg/kg bw/day  
Method : OECD Test Guideline 451

### Reproductive toxicity

#### Components:

##### **methyl methacrylate:**

Effects on foetal development : Species: Rat  
Application Route: Inhalation  
Dose: 99, 304, 1178 ppm  
Teratogenicity: NOAEC F1: 8 300 mg/m<sup>3</sup>  
Embryo-foetal toxicity: NOAEC F1: 8 300 mg/m<sup>3</sup>  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

##### **methacrylic acid:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0, 50, 150, 450 mg/kg/day  
General Toxicity - Parent: NOAEL: 50 mg/kg body weight  
Fertility: NOAEL F1: 400 mg/kg body weight  
Symptoms: Reduced body weight  
Method: OECD Test Guideline 416  
GLP: yes

Effects on foetal development : Test Type: Pre-natal  
Species: Rat, female  
Application Route: Inhalation  
Dose: 0, 50, 100, 200 or 300 ppm  
Duration of Single Treatment: 14 d  
Frequency of Treatment: 7 days/week  
General Toxicity Maternal: NOAEL: 200 ppm  
Developmental Toxicity: NOAEL:  $\geq 300$  ppm  
Embryo-foetal toxicity: NOAEC F1: 300 ppm  
Method: OECD Test Guideline 414  
Result: No effects on fertility and early embryonic development were detected.

Test Type: Pre-natal  
Species: Rabbit, male and female  
Application Route: Oral  
Dose: 50, 150, 450 milligram per kilogram  
Duration of Single Treatment: 23 d  
Frequency of Treatment: 7 days/week  
General Toxicity Maternal: NOAEL: 50 mg/kg body weight  
Developmental Toxicity: NOAEL F1: 450 mg/kg body weight  
Result: No effects on fertility and early embryonic development were detected.

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### 2,6-di-tert-butyl-p-cresol:

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 25/100/500 mg/kg bw/day  
General Toxicity - Parent: NOAEL: 100 mg/kg body weight  
General Toxicity F1: NOAEL: 25 mg/kg body weight  
Result: negative

Effects on foetal development : Test Type: Pre-natal  
Species: Mouse, female  
Application Route: Oral  
Duration of Single Treatment: 7 d  
General Toxicity Maternal: NOAEL: 240 mg/kg body weight  
Developmental Toxicity: NOAEL: 800 mg/kg body weight  
Target Organs: spleen, Kidney

### maleic acid:

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Target Organs: Bladder, Kidney  
Method: OECD Test Guideline 416  
Result: No effects on fertility and early embryonic development were detected.

### STOT - single exposure

#### Components:

#### **methyl methacrylate:**

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

#### **methacrylic acid:**

Exposure routes : Inhalation  
Target Organs : Respiratory Tract  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

#### **maleic acid:**

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

### STOT - repeated exposure

#### Components:

#### **maleic acid:**

Exposure routes : Ingestion  
Target Organs : Kidney

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Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### **$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide:**

Exposure routes : Inhalation  
Target Organs : Lungs  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### **Repeated dose toxicity**

#### **Components:**

##### **methyl methacrylate:**

Species : Rat, male and female  
NOAEL : 124,1 mg/kg  
Application Route : oral (drinking water)  
Exposure time : 2 years  
Number of exposures : daily  
Dose : 6, 60, 2000 ppm

##### **methacrylic acid:**

Species : Rat, male and female  
NOEC : 352 - 1232 mg/m<sup>3</sup>  
Application Route : inhalation (vapour)  
Test atmosphere : vapour  
Exposure time : 90 d  
Number of exposures : 6 h  
Dose : 70/352/1232 mg/m<sup>3</sup>  
Subsequent observation period : 5 days/week  
Method : OECD Test Guideline 413  
GLP : yes

##### **2,6-di-tert-butyl-p-cresol:**

Species : Pig, male and female  
NOAEL :  $\geq$  61 mg/kg  
Application Route : oral (feed)  
Exposure time : daily  
Method : Chronic toxicity

##### **maleic acid:**

Species : Rat, male and female  
NOEL : 40 mg/kg  
Application Route : Ingestion  
Exposure time : 2 160 h  
Number of exposures : 7 d  
Method : Subchronic toxicity

### **Aspiration toxicity**

No data available

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### 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

#### Further information

**Product:**

Remarks : Solvents may degrease the skin.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Components:**

**methyl methacrylate:**

Toxicity to fish : LC50 : 191 mg/l  
Exposure time: 96 h  
  
LC50 (Oncorhynchus mykiss (rainbow trout)): > 79 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: Fish Early-life Stage Toxicity Test

Toxicity to daphnia and other aquatic invertebrates : EC50 : 69 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 : > 110 mg/l  
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 37 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: flow-through test  
Method: OECD Test Guideline 211

**methacrylic acid:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 85 mg/l  
End point: mortality

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Exposure time: 96 h  
Test Type: flow-through test  
Test substance: Fresh water  
Method: Fish Acute Toxicity Test  
GLP: yes  
Remarks: Toxic to aquatic organisms.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 130 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: flow-through test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): 45 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Selenastrum capricornutum (green algae)): 8,2 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC50 (Pseudomonas putida): 270 mg/l  
Exposure time: 16,5 h  
Test Type: static test  
Analytical monitoring: no  
Test substance: Fresh water  
Method: DIN 38 412 Part 8  
GLP: yes

Toxicity to fish (Chronic toxicity) : NOEC: 10 mg/l  
Exposure time: 35 d  
Species: Brachydanio rerio (zebrafish)  
Test Type: flow-through test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 210  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 53 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: flow-through test  
Analytical monitoring: yes

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Test substance: Fresh water  
Method: OECD Test Guideline 211  
GLP: yes

### 2,6-di-tert-butyl-p-cresol:

- Toxicity to fish : LC50 (Fish): 0,199 mg/l  
Exposure time: 96 h  
Test substance: Fresh water  
Method: QSAR
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,48 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 0,24 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201
- NOEC (Pseudokirchneriella subcapitata (green algae)): 0,24 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to microorganisms : ErC50 (activated sludge): 1,7 mg/l  
Exposure time: 24 h  
Test Type: static test
- Toxicity to fish (Chronic toxicity) : NOEC: 0,053 mg/l  
Exposure time: 30 d  
Species: Oryzias latipes (Orange-red killifish)  
Test substance: Fresh water  
Method: OECD Test Guideline 210
- NOEC: >= 23,8 mg/l  
Exposure time: 70 d  
Species: Fish  
Test substance: Fresh water
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50: 0,096 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test substance: Fresh water  
Method: OECD Test Guideline 211

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NOEC: 0,069 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test substance: Fresh water  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

### maleic acid:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 75 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water  
Method: OPPTS 850.1075

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 42,81 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): 74,35 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

### $\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3,9 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: no  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 18,84 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 3,1 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201

## 12.2 Persistence and degradability

### Components:

#### **methyl methacrylate:**

Biodegradability : Result: Readily biodegradable.

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Biodegradation: > 60 %  
Exposure time: 28 d

### methacrylic acid:

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 3 mg/l  
Result: Readily biodegradable.  
Biodegradation: 86 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
GLP: yes

### 2,6-di-tert-butyl-p-cresol:

Biodegradability : Result: Not biodegradable

### maleic acid:

Biodegradability : Inoculum: Sewage (STP effluent)  
Concentration: 13,78 mg/l  
Result: Readily biodegradable.  
Biodegradation: ca. 97 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### $\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide:

Biodegradability : Result: Not readily biodegradable.

## 12.3 Bioaccumulative potential

### Components:

#### methyl methacrylate:

Bioaccumulation : Bioconcentration factor (BCF): 3

Partition coefficient: n-octanol/water : log Pow: 1,38

#### methacrylic acid:

Partition coefficient: n-octanol/water : log Pow: 0,93 (22 °C)  
pH: 2,2

#### 2,6-di-tert-butyl-p-cresol:

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Exposure time: 28 d  
Bioconcentration factor (BCF): 330 - 1 800  
Method: flow-through test

Partition coefficient: n-octanol/water : log Pow: 5,2



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### maleic acid:

Partition coefficient: n-octanol/water : log Pow: -1,3 (20 °C)  
pH: 2,5  
Method: OECD Test Guideline 107

### 12.4 Mobility in soil

#### Components:

#### 2,6-di-tert-butyl-p-cresol:

Distribution among environmental compartments : Koc: 8183

### 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.  
Harmful to aquatic life with long lasting effects.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : 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.

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Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR : UN 1133  
RID : UN 1133  
IMDG : UN 1133  
IATA : UN 1133

#### 14.2 UN proper shipping name

ADR : ADHESIVES  
RID : ADHESIVES  
IMDG : ADHESIVES  
IATA : Adhesives

#### 14.3 Transport hazard class(es)

ADR : 3  
RID : 3  
IMDG : 3  
IATA : 3

#### 14.4 Packing group

**ADR**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : (D/E)

**RID**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3

**IMDG**  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-D

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 364  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

#### IATA (Passenger)

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Packing instruction : 353  
(passenger aircraft)  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : no

#### RID

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

### 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 : Not applicable  
(Annex XIV)

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).

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

P5c FLAMMABLE LIQUIDS

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

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

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

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

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

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

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

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

TSCA : All substances listed as active on the TSCA inventory

### 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.

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## SECTION 16: Other information

### Full text of H-Statements

H225 : Highly flammable liquid and vapour.

H242 : Heating may cause a fire.

H302 : Harmful if swallowed.

H311 : Toxic in contact with skin.

H312 : Harmful in contact with skin.

H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.

H318 : Causes serious eye damage.

H319 : Causes serious eye irritation.

H331 : Toxic if inhaled.

H332 : Harmful if inhaled.

H335 : May cause respiratory irritation.

H373 : May cause damage to organs through prolonged or repeated exposure if swallowed.

H373 : May cause damage to organs through prolonged or repeated exposure.

H400 : Very toxic to aquatic life.

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Version 1.2      Revision Date: 24.01.2022      SDS Number: 400000001217      Date of last issue: 05.07.2017  
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H410 : Very toxic to aquatic life with long lasting effects.  
H411 : Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Chronic aquatic toxicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
Org. Perox. : Organic peroxides  
Skin Corr. : Skin corrosion  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitisation  
STOT RE : Specific target organ toxicity - repeated exposure  
STOT SE : Specific target organ toxicity - single exposure  
2009/161/EU : Europe. COMMISSION DIRECTIVE 2009/161/EU establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC  
IE OEL : Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1  
2009/161/EU / TWA : Limit Value - eight hours  
2009/161/EU / STEL : Short term exposure limit  
IE OEL / OELV - 8 hrs (TWA) : Occupational exposure limit value (8-hour reference period)  
IE OEL / OELV - 15 min (STEL) : Occupational exposure limit value (15-minute reference period)

### Further information

#### Classification of the mixture:

Flam. Liq. 2      H225  
Skin Irrit. 2      H315  
Eye Dam. 1      H318  
Skin Sens. 1      H317  
STOT SE 3      H335  
Aquatic Chronic 3      H412

#### Classification procedure:

Based on product data or assessment  
Calculation method  
Calculation method  
Calculation method  
Calculation method  
Calculation method

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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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

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