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

1.1 Product identifier

Trade name : ARALDITE® 2021-1 A

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

Use of the : Adhesives

Substance/Mixture

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)

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.

Specific target organ toxicity - single

exposure, Category 3, Respiratory

system

H335: May cause respiratory irritation.

Long-term (chronic) aquatic hazard, H412: Harmful to aquatic life with long lasting

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Category 3 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

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.

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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 : Adhesives and/or sealants

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concent ration (% 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)	>= 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 %	>= 5 - < 10
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 (Chronic aquatic toxicity): 1	>= 1 - < 2.5
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 STOT RE 2; H373 Aquatic Chronic 2; H411	>= 0.25 - < 1

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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 %

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.

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.

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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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

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

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).

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.

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. 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

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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

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			
		STEL	100 ppm 416 mg/m3	GB EH40
		TWA	50 ppm 208 mg/m3	GB EH40
methacrylic acid	79-41-4	TWA	20 ppm 72 mg/m3	GB EH40
		STEL	40 ppm 143 mg/m3	GB EH40
2,6-Di-tert-butyl-p- cresol	128-37-0	TWA	10 mg/m3	GB EH40
Silica, amorphous,	112945-52-	TWA (inhalable	6 mg/m3	GB EH40
fumed, crystfree	5	dust)	(Silica)	
		TWA (Respirable dust)	2.4 mg/m3 (Silica)	GB EH40

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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/m3
	Workers	Dermal	Long-term systemic effects	0.5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.86 mg/m3
	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	29.6 mg/m3
	Workers	Inhalation	Long-term local effects	88 mg/m3
	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
Silica, amorphous, fumed, crystfree	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:	Assessme	nt Factors	
		Marine water	0.02 μg/l
	Assessme	nt Factors	
	•	Sewage treatment plant	0.17 mg/l
Assessme		nt Factors	
		Fresh water sediment	0.0996 mg/kg dry weight (d.w.)
	Equilibriun	n method	
		Marine sediment	0.00996 mg/kg dry weight (d.w.)
	Equilibriun	n method	
		Soil	0.04769 mg/kg dry weight (d.w.)

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	Equilibriun	n method		
		Oral	8.33 mg/kg	
methacrylic acid		Fresh water	0.82 mg/l	
	Assessme	nt Factors		
	1	Marine water	0.82 mg/l	
	Assessme	Assessment Factors		
		Freshwater - intermittent	0.82 mg/l	
	Assessme	nt Factors		
		Sewage treatment plant	10 mg/l	
	Assessme	nt Factors	-	
	1	Soil	1.2 mg/kg	
	Equilibriun	n 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
Break through time : 60 min
Glove thickness : 0.7 mm

Remarks : 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.

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).

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 : Use respiratory protection unless adequate local exhaust

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

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Filter type : Organic vapour type (A)

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 : 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 : > 100 °C

Flash point : 10 °C

Method: closed cup

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.

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 : No data is available on the product itself.

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

Relative density : 1.01 - 1.02

Density : No data is available on the product itself.

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.

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

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

Viscosity

Viscosity, dynamic : 30,000 mPa.s (25 °C)

thixotropic

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

Oxidizing properties : 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 : Reducing agents

Strong oxidizing agents Heavy metal salts

10.6 Hazardous decomposition products

Hazardous decomposition : carbon dioxide products : carbon monoxide

SECTION 11: Toxicological information

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

Acute toxicity

Acute oral toxicity - Product : Acute toxicity estimate : > 2,000 mg/kg

Method: Calculation method

Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

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Acute inhalation toxicity -

Product

: Acute toxicity estimate : > 20 mg/l

Exposure time: 4 h

Test atmosphere: vapour Method: Calculation method

Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h Test atmosphere: vapour Method: Calculation method

Acute dermal toxicity -

Product

: Acute toxicity estimate : > 2,000 mg/kg

Method: Calculation method

Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Acute toxicity (other routes of : No data available

administration)

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

alpha,alpha-dimethylbenzyl hydroperoxide:

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

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2,6-Di-tert-butyl-p-cresol:

Species: Rabbit

Assessment: No eye irritation Method: OECD Test Guideline 405

Result: No eye irritation

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.

Assessment: No data available

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

2,6-Di-tert-butyl-p-cresol:

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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

Components:

methacrylic acid: Genotoxicity in vivo

: Test Type: in vivo assay Test 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 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 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

Germ cell mutagenicity-

Assessment

: No data available

Carcinogenicity

Components:

methyl methacrylate:

Species: Rat, male and female

Application Route: Oral

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Exposure time: 2 Years Dose: 6, 60, 2000 ppm

Frequency of Treatment: once daily

No observed adverse effect level: 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

No observed adverse effect level: >= 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

Lowest observed adverse effect level: 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

Carcinogenicity - :

Assessment

: No data available

Reproductive toxicity

Components:

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: No observed adverse effect level:

50 mg/kg body weight

Fertility: No observed adverse effect level F1: 400 mg/kg body

weight

Symptoms: Reduced body weight Method: OECD Test Guideline 416

GLP: yes

2,6-Di-tert-butyl-p-cresol:

Test Type: Two-generation study Species: Rat, male and female

Application Route: Oral

Dose: 25/100/500 mg/kg bw/day

General Toxicity - Parent: No observed adverse effect level:

100 mg/kg body weight

General Toxicity F1: No observed adverse effect level: 25

mg/kg body weight

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Result: negative

Components:

methyl methacrylate: Effects on foetal development

: Species: Rat

Application Route: Inhalation Dose: 99, 304, 1178 ppm

Teratogenicity: No observed adverse effect concentration F1:

8.300 ma/m³

Embryo-foetal toxicity: No observed adverse effect

concentration F1: 8,300 mg/m³
Method: OECD Test Guideline 414
Result: No teratogenic effects

methacrylic acid:

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: No observed adverse effect level:

200 ppm

Developmental Toxicity: No observed adverse effect level: >=

300 ppm

Embryo-foetal toxicity: No observed adverse effect

concentration 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: No observed adverse effect level:

50 mg/kg body weight

Developmental Toxicity: No observed adverse effect level F1:

450 mg/kg body weight

Result: No effects on fertility and early embryonic

development were detected.

2,6-Di-tert-butyl-p-cresol:

Test Type: Pre-natal Species: Mouse, female Application Route: Oral

Duration of Single Treatment: 7 d

General Toxicity Maternal: No observed adverse effect level:

240 mg/kg body weight

Developmental Toxicity: No observed adverse effect level:

800 mg/kg body weight Target Organs: spleen, Kidney

according to Regulation (EC) No. 1907/2006



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Reproductive toxicity -

Assessment

: No data available

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.

STOT - repeated exposure

Components:

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

Application Route: inhalation (vapour)

Test atmosphere: vapour

Exposure time: 90 dNumber of exposures: 6 h

Dose: 70/352/1232 mg/m3

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: >= 61 mg/kg

Application Route: oral (feed)

according to Regulation (EC) No. 1907/2006



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Exposure time: daily Method: Chronic toxicity

Repeated dose toxicity -

Assessment

: No data available

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

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Product:

Remarks: Solvents may degrease the skin.

according to Regulation (EC) No. 1907/2006



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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: EPA OPPTS 850.1400

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 Exposure time: 96 h

Test Type: flow-through test Test substance: Fresh water Method: EPA OTS 797.1400

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: EPA OTS 797.1300

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

according to Regulation (EC) No. 1907/2006



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Exposure time: 72 h Test Type: static test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 201

GLP: yes

: EC50 (Pseudomonas putida): 270 mg/l Toxicity to microorganisms

> 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 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

according to Regulation (EC) No. 1907/2006



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Exposure time: 72 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 201

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

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)

alpha, alpha-dimethylbenzyl hydroperoxide:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.9 mg/l

: 1

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

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12.2 Persistence and degradability

Components:

methyl methacrylate:

Biodegradability : Result: Readily biodegradable.

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

alpha, alpha-dimethylbenzyl hydroperoxide:

Biodegradability : Result: Not readily biodegradable.

12.3 Bioaccumulative potential

Components:

methyl methacrylate:

Bioaccumulation : Bioconcentration factor (BCF): 3

Partition coefficient: n-

: log Pow: 1.38

octanol/water methacrylic acid:

Partition coefficient: n- : log Pow: 0.93 (22 °C)

octanol/water 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

12.4 Mobility in soil

Components:

2,6-Di-tert-butyl-p-cresol:

Distribution among : Koc: 8183

environmental compartments

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

according to Regulation (EC) No. 1907/2006



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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.

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

SECTION 14: Transport information

IATA

14.1 UN number or ID : UN 1133

number

14.2 UN proper shipping : Adhesives

14.3 Transport hazard : 3

class(es)

14.4 Packing group : II

Labels : Flammable Liquids

Packing instruction (cargo

aircraft)

: 364

according to Regulation (EC) No. 1907/2006



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Packing instruction

(passenger aircraft)

IMDG

14.1 UN number or ID : UN 1133

number

14.2 UN proper shipping : ADHESIVES

name

14.3 Transport hazard : 3

class(es)

14.4 Packing group: IILabels: 3EmS Code: F-E, S-D

14.5 Environmental hazards

Marine pollutant : no

ADR

14.1 UN number or ID : UN 1133

number

14.2 UN proper shipping : ADHESIVES

name

14.3 Transport hazard : 3

class(es)

14.4 Packing group : II Labels : 3

14.5 Environmental hazards

Environmentally hazardous : no

RID

14.1 UN number or ID : UN 1133

number

14.2 UN proper shipping : ADHESIVES

name

14.3 Transport hazard : 3

class(es)

14.4 Packing group: IILabels: 3

14.5 Environmental hazards

Environmentally hazardous : no

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

according to Regulation (EC) No. 1907/2006



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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

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

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

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

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

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

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

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

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.

according to Regulation (EC) No. 1907/2006



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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.

H331 : Toxic if inhaled. H332 : Harmful if inhaled.

H335 : May cause respiratory irritation.

H373 : May cause damage to organs through prolonged or repeated

exposure.

H400 : Very toxic to aquatic life.

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 : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage
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

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

2009/161/EU / TWA : Limit Value - eight hours 2009/161/EU / STEL : Short term exposure limit

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

Further information

Classification of the mixture: Classification procedure:

Flam. Liq. 2	H225	Based on product data or assessment
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H335	Calculation method
Aquatic Chronic 3	H412	Calculation method

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

1.1 Product identifier

Trade name : ARALDITE® 2021-1 B

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

Use of the : Adhesives and/or sealants

Substance/Mixture

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)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.

Skin irritation, Category 2 H315: Causes skin irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

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

exposure, Category 3, Respira

system

H335: May cause respiratory irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms





Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

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.
P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection/ hearing

protection.

Response:

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

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

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concent ration (% w/w)
methyl methacrylate	80-62-6	Flam. Liq. 2; H225	>= 70 -

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	201-297-1 607-035-00-6 01-2119452498-28	Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)	< 90
3,5-diethyl-1,2-dihydro-1-phenyl- 2-propylpyridine	34562-31-7 252-091-3 01-2120769712-47	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 4; H413	>= 2.5 - < 10
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 (Chronic aquatic toxicity): 1	>= 0.1 - < 0.25

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.

Show this safety data sheet to the doctor in attendance.

Treat symptomatically.

Get medical attention if symptoms occur.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution.

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.

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 : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

High volume water jet

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

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

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.

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.

according to Regulation (EC) No. 1907/2006



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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).

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.

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.

Open drum carefully as content may be under pressure.

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.

according to Regulation (EC) No. 1907/2006



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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
methyl methacrylate	80-62-6	TWA	50 ppm	2009/161/EU
Further information	Indicative			
		STEL	100 ppm	2009/161/EU
Further information	Indicative			
		STEL	100 ppm 416 mg/m3	GB EH40
		TWA	50 ppm 208 mg/m3	GB EH40
2,6-Di-tert-butyl-p- cresol	128-37-0	TWA	10 mg/m3	GB EH40

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/m3
	Workers	Dermal	Long-term systemic effects	0.5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.86 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.25 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0.25 mg/kg bw/day

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: Assessme		ent Factors	
		Marine water	0.02 μg/l
Assessme		ent Factors	·
		Sewage treatment plant	0.17 mg/l
Assessme		ent Factors	•

according to Regulation (EC) No. 1907/2006



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	Fresh water sediment	0.0996 mg/kg dry weight (d.w.)
Ed	quilibrium method	
	Marine sediment	0.00996 mg/kg dry weight (d.w.)
Ec	quilibrium method	·
	Soil	0.04769 mg/kg dry weight (d.w.)
Ec	quilibrium method	·
	Oral	8.33 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Hand protection

Material : butyl-rubber
Break through time : 60 min
Glove thickness : 0.7 mm

Remarks : 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.

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).

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 : Use respiratory protection unless adequate local exhaust

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

Filter type : Organic vapour type (A)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

according to Regulation (EC) No. 1907/2006



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Physical state : paste

Colour : light yellow

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 : $> 100 \, ^{\circ}\text{C}$

Flash point : 10 °C

Method: closed cup

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.

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 : No data is available on the product itself.

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

Relative density : 0.95 (20 °C)

Density : 0.95 g/cm3 (20 °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

Viscosity, dynamic : 15,000 - 20,000 mPa.s (25 °C)

thixotropic

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

according to Regulation (EC) No. 1907/2006



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Oxidizing properties : 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 Strong acids

Strong bases

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition : carbon dioxide products

carbon monoxide

SECTION 11: Toxicological information

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

Acute toxicity

Acute oral toxicity - Product : Acute toxicity estimate : > 2,000 mg/kg

Method: Calculation method

Components:

methyl methacrylate:

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.

Components:

methyl methacrylate:

Acute dermal toxicity : LD50 (Rabbit, male): > 5,000 mg/kg

Method: OECD Test Guideline 402

according to Regulation (EC) No. 1907/2006



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3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine:

Acute dermal toxicity : LD50 (Rabbit, male and female): > 1,000 mg/kg

GLP: yes

Assessment: The substance or mixture has no acute dermal

toxicity

2,6-Di-tert-butyl-p-cresol:

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

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

Components:

methyl methacrylate: Species: Rabbit

Method: OPPTS 870.2500 Result: Skin irritation

3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine:

Species: Rabbit Exposure time: 4 h Method: Other guidelines Result: Skin irritation

GLP: yes

2,6-Di-tert-butyl-p-cresol:

Species: Rabbit

Assessment: No skin irritation Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Components:

3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Mild eye irritation

GLP: yes

2,6-Di-tert-butyl-p-cresol:

Species: Rabbit

Assessment: No eye irritation Method: OECD Test Guideline 405

Result: No eye irritation

according to Regulation (EC) No. 1907/2006



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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.

3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine: Test Type: Local lymph node assay (LLNA)

Species: Mouse

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 429

Result: Did not cause sensitisation on laboratory animals.

GLP: yes

2,6-Di-tert-butyl-p-cresol: Exposure routes: Skin Species: Humans

Result: Does not cause skin sensitisation.

Assessment: No data available

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

3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine:

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 GLP: yes

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

according to Regulation (EC) No. 1907/2006



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Components:

2,6-Di-tert-butyl-p-cresol:

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

Germ cell mutagenicity-

Assessment

: No data available

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

No observed adverse effect level: 90.3 mg/kg bw/day

Result: negative

2,6-Di-tert-butyl-p-cresol: Species: Rat, male and female

Application Route: Oral

Result: negative

Carcinogenicity - : No data available

Assessment

Reproductive toxicity

Components:

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: No observed adverse effect level:

100 mg/kg body weight

General Toxicity F1: No observed adverse effect level: 25

mg/kg body weight Result: negative

Components:

methyl methacrylate:

according to Regulation (EC) No. 1907/2006



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: Species: Rat

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Effects on foetal

development Application Route: Inhalation

Dose: 99, 304, 1178 ppm

Teratogenicity: No observed adverse effect concentration F1:

8,300 mg/m³

Embryo-foetal toxicity: No observed adverse effect

concentration F1: 8,300 mg/m³
Method: OECD Test Guideline 414
Result: No teratogenic effects

2,6-Di-tert-butyl-p-cresol:

Test Type: Pre-natal Species: Mouse, female Application Route: Oral

Duration of Single Treatment: 7 d

General Toxicity Maternal: No observed adverse effect level:

240 mg/kg body weight

Developmental Toxicity: No observed adverse effect level:

800 mg/kg body weight Target Organs: spleen, Kidney

Reproductive toxicity -

Assessment

: No data available

STOT - single exposure

Components:

methyl methacrylate: Exposure routes: Inhalation Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

STOT - repeated exposure

No data available

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

2,6-Di-tert-butyl-p-cresol: Species: Pig, male and female

NOAEL: >= 61 mg/kg

Application Route: oral (feed)

Exposure time: daily Method: Chronic toxicity

Repeated dose toxicity -

Assessment

: No data available

according to Regulation (EC) No. 1907/2006



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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

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Product:

Remarks: Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

methyl methacrylate:

according to Regulation (EC) No. 1907/2006



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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: EPA OPPTS 850.1400

Toxicity to daphnia and other

aquatic invertebrates

: EC50:69 ma/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

3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine:

Toxicity to daphnia and other

aquatic invertebrates

: EL50 (Daphnia magna (Water flea)): 22 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 40 mg/l

Exposure time: 72 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 16

ma/l

Exposure time: 72 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Ecotoxicology Assessment

Chronic aquatic toxicity May cause long lasting harmful effects to aquatic life.

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

according to Regulation (EC) No. 1907/2006



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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

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

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

12.2 Persistence and degradability

Components:

methyl methacrylate:

Biodegradability : Result: Readily biodegradable.

Biodegradation: > 60 % Exposure time: 28 d

3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine:

according to Regulation (EC) No. 1907/2006



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Biodegradability : Result: Not readily biodegradable.

Biodegradation: 0.132 % Exposure time: 28 d Method: QSAR

GLP: no

2,6-Di-tert-butyl-p-cresol:

Biodegradability : Result: Not biodegradable

12.3 Bioaccumulative potential

Components:

methyl methacrylate:

Bioaccumulation : Bioconcentration factor (BCF): 3

Partition coefficient: n- : log Pow: 1.38

octanol/water

3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine:
Partition coefficient: n- : log Pow: > 6.5 (25 °C)

octanol/water pH: 5.7

Method: OECD Test Guideline 117

GLP: yes

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

12.4 Mobility in soil

Components:

2,6-Di-tert-butyl-p-cresol:

Distribution among : Koc: 8183

environmental compartments

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.

according to Regulation (EC) No. 1907/2006



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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.

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.

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

SECTION 14: Transport information

IATA

14.1 UN number or ID : UN 1133

number

14.2 UN proper shipping

name

14.3 Transport hazard : 3

class(es)

14.4 Packing group : 11

Labels : Flammable Liquids

Packing instruction (cargo

aircraft)

: 364

: Adhesives

Packing instruction

(passenger aircraft)

: 353

IMDG

14.1 UN number or ID : UN 1133

number

14.2 UN proper shipping : ADHESIVES

name

14.3 Transport hazard : 3

class(es)

14.4 Packing group : 11 Labels 3

: F-E, S-D EmS Code

according to Regulation (EC) No. 1907/2006



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14.5 Environmental hazards

Marine pollutant : no

ADR

14.1 UN number or ID : UN 1133

number

14.2 UN proper shipping : ADHESIVES

name

14.3 Transport hazard : 3

class(es)

14.4 Packing group : II Labels : 3

14.5 Environmental hazards

Environmentally hazardous : no

RID

14.1 UN number or ID : UN 1133

number

14.2 UN proper shipping : ADHESIVES

name

14.3 Transport hazard : 3

class(es)

14.4 Packing group : II Labels : 3

14.5 Environmental hazards

Environmentally hazardous : no

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 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

according to Regulation (EC) No. 1907/2006



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

NZIoC : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

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

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

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.

SECTION 16: Other information

Full text of H-Statements

H225 : Highly flammable liquid and vapour.

H302 : Harmful if swallowed. H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H319 : Causes serious eye irritation.
H335 : May cause respiratory irritation.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.H413 : May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard Aquatic Chronic : Long-term (chronic) aquatic hazard

according to Regulation (EC) No. 1907/2006



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Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

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

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

2009/161/EU / TWA : Limit Value - eight hours 2009/161/EU / STEL : Short term exposure limit

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

Further information

Classification of the mixture: Classification procedure:

Flam. Liq. 2 H225 Based on product data or assessment

Skin Irrit. 2 H315 Calculation method
Skin Sens. 1 H317 Calculation method
STOT SE 3 H335 Calculation method

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according to Regulation (EC) No. 1907/2006



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