according to Regulation (EC) No. 1907/2006



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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 : Adhesives

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : Huntsman Advanced Materials (Europe) BV

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 : Berlin: 0049 30 19 24 0 & 0049 30 30 68 6 7 11

Bonn: 0049 228 19 27 0 & 0049 228 28 7 3 32 11

Erfurt: 0049 361 73 07 30 Freiburg: 0049 761 16 24 0

Göttingen: 0049 51 19 24 0 & 0049 551 38 31 80

Homburg: 0049 6841 19 24 0

Mainz: 0049 6131 19 24 0 & 0049 6131 23 24 66

München: 0049 89 19 24 0 Nürnberg: 0049 911 39 8 2 45 1 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.

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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,

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

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2.3 Other hazards

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

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	80-62-6 201-297-1 607-035-00-6 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 % Eye Dam. 1; H318 >= 3 % Eye Irrit. 2A; H319 1 - < 3 % Acute Tox. 3; H311 >= 25 % Acute Tox. 4; H312 10 - < 25 %	>= 3 - < 5
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4	Aquatic Acute 1; H400 Aquatic Chronic 1;	>= 1 - < 2,5

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	1 mil Bate 17:11.2020		
	01-2119555270-46	H410	
		M-Factor (Acute aquatic toxicity): 1 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) specific concentration limit Skin Sens. 1; H317 >= 0,1 %	>= 1 - < 10
α, α-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
		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	

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.

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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 : 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

Risks : Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation.

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

according to Regulation (EC) No. 1907/2006



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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

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations. 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.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible

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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.

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

Hygiene measures

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.

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.

Storage class (TRGS 510) : 3

Recommended storage

temperature

2 - 8 °C

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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	80-62-6	TWA	50 ppm	2009/161/EU	
methacrylate					
	Further inform	ation: Indicative			
		STEL	100 ppm	2009/161/EU	
	Further inform	nation: Indicative			
		AGW	50 ppm	DE TRGS	
			210 mg/m3	900	
	Peak-limit: ex	cursion factor (categ	ory): 2;(I)		
	Further inform	ation: When there is	compliance with the OEL ar	nd biological	
	tolerance valu	es, there is no risk o	of harming the unborn child		
methacrylic acid	79-41-4	AGW	50 ppm	DE TRGS	
-			180 mg/m3	900	
	Peak-limit: ex	Peak-limit: excursion factor (category): 2;(I)			
	Further information: When there is compliance with the OEL and biological				
	tolerance valu	ies, there is no risk o	of harming the unborn child		
2,6-di-tert-butyl-p-	128-37-0	AGW (Vapour	10 mg/m3	DE TRGS	
cresol		and aerosols,		900	
		inhalable			
		fraction)			
	Peak-limit: excursion factor (category): 4;(II)				
	Further information: When there is compliance with the OEL and biological				
	tolerance values, there is no risk of harming the unborn child				
Silicon, amorphous	112945-52-	AGW (Inhalable	4 mg/m3	DE TRGS	
	5	fraction)	(Silica)	900	
	Further information: When there is compliance with the OEL and biological				
	tolerance values, there is no risk of harming the unborn child				

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

Substance name	End Use	Exposure routes	Potential health	Value
			effects	
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

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	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
Silicon, amorphous	Workers	Inhalation	Long-term systemic effects	4 mg/m3
maleic acid	Workers	Inhalation	Long-term systemic effects	3 mg/m3
	Workers	Inhalation	Acute systemic effects	3 mg/m3
	Workers	Inhalation	Long-term local effects	3 mg/m3
	Workers	Inhalation	Acute local effects	3 mg/m3
	Workers	Dermal	Acute local effects	0,55 mg/cm2
	Workers	Dermal	Long-term local effects	0,04 mg/cm2
	Workers	Dermal	Acute systemic effects	58 mg/kg
	Workers	Dermal	Long-term systemic effects	3,3 mg/kg

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		
	Oral	8,33 mg/kg	
methacrylic acid	Fresh water	0,82 mg/l	
	Remarks: Assessment Factors		
	Marine water	0,82 mg/l	

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	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	
maleic acid	Fresh water	0,1 mg/l
	Remarks: Assessment Factors	
	Freshwater - intermittent	0,428 mg/l
	Remarks: Assessment Factors	
	Marine water	0,01 mg/l
	Remarks: Assessment Factors	
	Sewage treatment plant	44,6 mg/l
	Remarks: Assessment Factors	
	Fresh water sediment	0,344 mg/kg dry weight (d.w.)
	Remarks:Equilibrium method	
	Marine sediment	0,0334 mg/kg dry weight (d.w.)
	Remarks:Equilibrium method	
	Soil	0,042 mg/kg
	Remarks:Equilibrium method	

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Material : butyl-rubber

Material : Ethyl Vinyl Alcohol Laminate (EVAL)

Break through time : > 8 h

Material : Nitrile rubber 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.

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

approved filter.

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines

Equipment should conform to EN 14387

Filter type : Combined particulates and organic vapour type (A-P)

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.

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

Boiling point/boiling range : > 100 °C

Method: estimated

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

Lower explosion limit / Lower

flammability limit

: No data is available on the product itself.

Upper explosion limit / Upper

flammability limit

: No data is available on the product itself.

Flash point : 10 °C

Method: estimated, closed cup

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

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

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

Viscosity : No data is available on the product itself.

Solubility(ies)

Water solubility : insoluble

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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.

Vapour pressure : No data is available on the product itself.

Density : 1,01 - 1,02 g/cm3 (23 °C)

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

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

Particle characteristics : No data is available on the product itself.

9.2 Other information

No data is available on the product itself.

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

No decomposition if stored and applied as directed.

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

Not classified due to lack of data.

Product:

according to Regulation (EC) No. 1907/2006



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

Method: Calculation method

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

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toxicity

maleic acid:

Acute oral toxicity : LD50 (Rat, male and female): 708 mg/kg

Assessment: The component/mixture is moderately toxic after

single ingestion.

Acute dermal toxicity : LD50 (Rabbit): 1 560 mg/kg

Assessment: The component/mixture is moderately toxic after

single contact with skin.

 α , α -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

Causes skin 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 : Human

Assessment : Irritating to skin. Result : Irritating to skin.

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α , α -dimethylbenzyl hydroperoxide:

Result : Causes burns.

Serious eye damage/eye irritation

Causes serious eye damage.

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 : Irritating to eyes.

Method : OECD Test Guideline 405

α, α-dimethylbenzyl hydroperoxide:

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

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

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.

according to Regulation (EC) No. 1907/2006



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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.

maleic acid:

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Assessment : May cause sensitisation by skin contact.

Method : OECD Test Guideline 429

Result : May cause sensitisation by skin contact.

GLP : yes

Germ cell mutagenicity

Not classified due to lack of data.

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

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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

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 : Test Type: reverse mutation assay

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Test Type: gene mutation test

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Carcinogenicity

Not classified due to lack of data.

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

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NOAEL : >= 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:

Species : Rat, male and female

Application Route : Oral Exposure time : 2 years

Dose : 0, 10, 32, 100 mg/kg/day

Frequency of Treatment : 7 days/week

NOAEL : >= 100 mg/kg bw/day
Method : OECD Test Guideline 451

Result : negative

Reproductive toxicity

Not classified due to lack of data.

Components:

methyl methacrylate:

Effects on foetal : Species: Rat

development Application Route: Inhalation

Dose: 99, 304, 1178 ppm

Teratogenicity: NOAEC F1: 8 300 mg/m³ Embryo-foetal toxicity: NOAEC F1: 8 300 mg/m³

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 : Test Type: Pre-natal development : Species: Rat, female

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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: >= 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.

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 : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral

Dose: 0, 20, 55 and 150 mg/kg Frequency of Treatment: 7 days/week

General Toxicity - Parent: LOEL: 20 mg/kg body weight General Toxicity F1: NOEL: 150 mg/kg body weight General Toxicity F2: NOEL: 55 mg/kg body weight

Target Organs: Kidney

Method: OECD Test Guideline 416

STOT - single exposure

May cause respiratory irritation.

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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:

Exposure routes : Inhalation Target Organs : Lungs

Assessment : The substance or mixture is classified as specific target organ

toxicant, single exposure, category 3 with respiratory tract

irritation.

STOT - repeated exposure

Not classified due to lack of data.

Components:

α , α -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/m3 Application Route : inhalation (vapour)

Test atmosphere : vapour Exposure time : 90 d Number of exposures : 6 h

Dose : 70/352/1232 mg/m3

Subsequent observation : 5 days/week

according to Regulation (EC) No. 1907/2006



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period

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)
Exposure time : daily

Method : Chronic toxicity

maleic acid:

Species : Rat, male and female

NOEL : 40 mg/kg
Application Route : oral (feed)
Exposure time : 90 d
Number of exposures : 7 days/week

Method : OECD Test Guideline 408

Aspiration toxicity

Not classified due to lack of data.

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:

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: 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

: NOEC: 37 mg/l

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

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: 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

according to Regulation (EC) No. 1907/2006



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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 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

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M-Factor (Acute aquatic

toxicity)

: 1

Toxicity to microorganisms : ErC

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

maleic acid:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 75 mg/l

End point: mortality
Exposure time: 96 h
Test Type: static test
Test substance: Fresh water

Method: EPA-660/3-75-009

GLP: yes

Remarks: Information given is based on data obtained from

similar substances.

LC50 (Lepomis macrochirus (Bluegill sunfish)): 75 mg/l

End point: mortality Exposure time: 96 h Test Type: static test Analytical monitoring: no Test substance: Fresh water Method: EPA-660/3-75-009

GLP: yes

Remarks: Information given is based on data obtained from

according to Regulation (EC) No. 1907/2006



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similar substances.

LC50 (Leuciscus idus (Golden orfe)): > 245 mg/l

End point: mortality Exposure time: 48 h

Test substance: Fresh water

Method: DIN 38412

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 42,81 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes Test substance: Fresh water

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

ErC50 (Selenastrum capricornutum (green algae)): 74,35 mg/l

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

GLP: yes

ErC10 (Selenastrum capricornutum (green algae)): 11,8 mg/l

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

GLP: yes

EC10 (Pseudomonas putida): 44,6 mg/l Toxicity to microorganisms

> Exposure time: 18 h Test Type: static test Method: DIN 38 412 Part 8

Toxicity to daphnia and other :

aquatic invertebrates

(Chronic toxicity)

EC50: 77 ma/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test substance: Fresh water

GLP: no

NOEC: 10 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test substance: Fresh water

GLP: no

α, α-dimethylbenzyl hydroperoxide:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 3,9 mg/l

> Exposure time: 96 h Test Type: semi-static test

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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.

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 : Test Type: aerobic

Inoculum: Sewage (STP effluent) Concentration: 13,78 mg/l Result: Readily biodegradable. Biodegradation: ca. 97 %

Exposure time: 28 d

Method: OECD Test Guideline 301B

Test substance: Fresh water

GLP: yes

α , α -dimethylbenzyl hydroperoxide:

Biodegradability : Result: Not readily biodegradable.

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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- : 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

maleic acid:

Partition coefficient: n- : log Pow: -1,3 (20 °C)

octanol/water pH: 2,5

Method: OECD Test Guideline 107

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

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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 with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of contents and container in accordance with all local,

regional, national and international regulations.

Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

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

14.1 UN number or ID number

IMDG : UN 1133 IATA : UN 1133

14.2 UN proper shipping name

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

14.3 Transport hazard class(es)

Class Subsidiary risks

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

14.4 Packing group

ADN

Packing group : II

according to Regulation (EC) No. 1907/2006



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Classification Code : F1 Hazard Identification Number : 33 Labels : 3

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 : 364

aircraft)

Packing instruction (LQ) : Y341
Packing group : II

Labels : Flammable Liquids

IATA (Passenger)

Packing instruction : 353

(passenger aircraft)

Packing instruction (LQ) : Y341
Packing group : II

Labels : Flammable Liquids

14.5 Environmental hazards

ADN

Environmentally hazardous : no

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.

according to Regulation (EC) No. 1907/2006



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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

REACH - Candidate List of Substances of Very High

(Annex XIV)

Concern for Authorisation (Article 59).

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles (Annex XVII)

: Not applicable

: This product does not contain substances of very high concern.

Conditions of restriction for the following entries should be

considered:

Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your

vendor.

FLAMMABLE LIQUIDS

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

dangerous substances.

Water hazard class : WGK 1 slightly hazardous to water

(Germany) Classification according to AwSV, Annex 1 (5.2)

Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

P₅c

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

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

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

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

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

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

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

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

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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.

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.

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

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

according to Regulation (EC) No. 1907/2006



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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

Calculation method

Commission Directive 2000/39/EC

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.

2009/161/EU / TWA : Limit Value - eight hours 2009/161/EU / STEL : Short term exposure limit DE TRGS 900 / AGW : Time Weighted Average

H412

Further information

Aquatic Chronic 3

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

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