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® 2051 RESIN

Unique Formula Identifier

(UFI)

: C2R5-V02E-T00Q-RHF4

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 : Grijpenlaan 18

3300 Tienen 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 corrosion, Sub-category 1B H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1 H318: Causes serious eye damage.

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

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

H335: May cause respiratory irritation.

Long-term (chronic) aquatic hazard,

Category 3 ef

H412: Harmful to aquatic life with long lasting

effects.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms







Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.
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.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection/ hearing protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin

with water

P304 + P340 + P310 IF INHALED: Remove person to fresh

air and keep comfortable for breathing.

Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/

doctor.

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

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2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate

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 methyl methacrylate	CAS-No. EC-No. Index-No. Registration number 80-62-6 201-297-1 607-035-00-6 01-2119452498-28	Classification Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335	Concent ration (% w/w) >= 50 - < 70
methacrylic acid	79-41-4 201-204-4 607-088-00-5 01-2119463884-26	(Respiratory system)	>= 5 - < 10

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2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4 01-2119555270-46	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	52628-03-2 258-053-2 01-2119980575-25	Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1B; H317	>= 1 - < 3
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 < 10 %	
		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.

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

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personal protective equipment.

Avoid inhalation, ingestion and contact with skin and eyes. No action shall be taken involving any personal risk or without

suitable training.

It may be dangerous to the person providing aid to give

mouth-to-mouth resuscitation.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with

difficulty.

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

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Risks : May cause an allergic skin reaction.

Causes serious eye damage. May cause respiratory irritation.

Causes severe burns.

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

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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 oxidesSulphur oxidesHydrogen 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

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

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6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

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

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.

Storage class (TRGS 510) : 3

Further information on

storage stability

: Stable under normal conditions.

Recommended storage

temperature

: 2-8°C

7.3 Specific end use(s)

Specific use(s) : No data available

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis				
'		of exposure)	·					
methyl methacrylate	80-62-6	TWA	50 ppm	2009/161/EU				
	Further inform	nation: Indicative						
		STEL	100 ppm	2009/161/EU				
	Further inform	ation: Indicative						
		AGW	50 ppm	DE TRGS				
	Deal Park		210 mg/m3	900				
		cursion factor (categ						
			compliance with the OEL ar	nd biological				
	tolerance valu		of harming the unborn child	DE DEC MAK				
		MAK	50 ppm 210 mg/m3	DE DFG MAK				
	Further inform	nation: Danger of ser	nsitization of the skin, Damag	le to the				
			the MAK value or the BAT va					
	observed	,						
methacrylic acid	79-41-4	AGW	50 ppm	DE TRGS				
•			180 mg/m3	900				
	Peak-limit: excursion factor (category): 2;(I)							
	Further information: When there is compliance with the OEL and biological							
	tolerance valu		of harming the unborn child					
		MAK	50 ppm	DE DFG MAK				
	E 46	-C D	180 mg/m3	1 (1				
	Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed							
0 C di tant butul n				DE TDCC				
2,6-di-tert-butyl-p- cresol	128-37-0	AGW (Vapour and aerosols,	10 mg/m3	DE TRGS 900				
Clesoi		inhalable		900				
		fraction)						
	Peak-limit: ev		ory): 4:(II)	l .				
	Peak-limit: excursion factor (category): 4;(II) Further information: When there is compliance with the OEL and biological							
			of harming the unborn child	Diological				
		MAK (inhalable	10 mg/m3	DE DFG MAK				
		fraction)	J					
	Further inform	nation: Substances th	nat cause cancer in humans	or animals or				
	that are considered to be carcinogenic for humans and for which a MAK value							
	can be derived., Damage to the embryo or foetus is unlikely when the MAK							
		AT value is observe						
Silicon, amorphous	112945-52-	AGW (Inhalable	4 mg/m3	DE TRGS				
	5	fraction)	(Silica)	900				
			compliance with the OEL ar	nd biological				
	tolerance valu		of harming the unborn child	DE DEC MARK				
		MAK (measured	0,02 mg/m3	DE DFG MAK				
		as the alveolate						

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	fraction)	
1	Further information: Damage to the MAK value or the BAT value is obs	 when the

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
2-Propenoic acid, 2- methyl-, 2- hydroxyethyl ester, phosphate	Workers	Inhalation	Long-term systemic effects	7,04 mg/m3
	Workers	Dermal	Long-term systemic effects	1 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,74 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,5 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

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 0,1			
	Remarks: Assessment Factors			
	Fresh water sediment	0,0996 mg/kg dry weight (d.w.)		
	Remarks:Equilibrium method			
	Marine sediment	0,00996 mg/kg		

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1		dry weight (d.w.)			
	Remarks:Equilibrium method	ary mengini (armi)			
	Soil	0,04769 mg/kg			
		dry weight (d.w.)			
	Remarks:Equilibrium method				
	Oral	8,33 mg/kg			
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	Fresh water	0,068 mg/l			
	Remarks: Assessment Factors				
	Marine water	0,007 mg/l			
	Remarks: Assessment Factors				
	Sewage treatment plant	0,546 mg/l			
	Remarks: Assessment Factors				
	Fresh water sediment	0,481 mg/kg dry weight (d.w.)			
	Remarks:Equilibrium method				
	Marine sediment	0,048 mg/kg dry weight (d.w.)			
	Remarks:Equilibrium method				
	Soil	0,056 mg/kg dry weight (d.w.)			
	Remarks:Equilibrium method				
methacrylic acid	Fresh water	0,82 mg/l			
	Remarks: Assessment Factors				
	Marine water	0,82 mg/l			
	Remarks: Assessment Factors				
	Freshwater - intermittent	0,82 mg/l			
	Remarks: Assessment Factors				
	Sewage treatment plant	10 mg/l			
	Remarks: Assessment Factors				
	Soil	1,2 mg/kg			
	Remarks:Equilibrium method				

8.2 Exposure controls

Personal protective equipment

Eye/face protection Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

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.

Skin and body protection Impervious clothing

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

Use respiratory protection unless adequate local exhaust Respiratory protection

ventilation is provided or exposure assessment demonstrates

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that exposures are within recommended exposure guidelines

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 : Organic vapour type (A)

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 : like methacrylic acid

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

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

Boiling point : No data is available on the product itself.

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

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

Viscosity, dynamic : 40 - 70 Pas

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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.

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

Density : 1,02 - 1,05 g/cm3

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 hazardous decomposition products are known. No decomposition if stored and applied as directed.

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.

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Product:

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

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Assessment: The substance or mixture has no acute dermal

toxicity

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate:

Acute oral toxicity : LD50 (Rat, female): > 2 000 mg/kg

Method: OECD Test Guideline 425

GLP: yes

Assessment: The component/mixture is low toxic after single

ingestion.

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 severe burns.

Product:

Method : OECD Test Guideline 431

Result : Causes burns.

GLP : yes

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

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2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate:

Species : Rabbit Exposure time : 4 h

Assessment : Causes burns.

Method : OECD Test Guideline 404

Result : Causes burns.

GLP : yes

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

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate:

Result : Corrosive

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.

according to Regulation (EC) No. 1907/2006



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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.

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate:

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Method : OECD Test Guideline 429

Result : The product is a skin sensitiser, sub-category 1B.

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)

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Application Route: Inhalation

Exposure time: 6 h

Dose: 0.405, 4.05 and 36.45 mg/L Method: OECD Test Guideline 478

Result: negative

GLP: no

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

Genotoxicity in vitro : Test Type: reverse mutation assay

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Chromosome aberration test in vitro

Metabolic activation: with and without metabolic activation

Result: negative

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

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella tryphimurium and E. coli Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative GLP: yes

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative GLP: yes

Test Type: Chromosome aberration test in vitro

Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative GLP: yes

Carcinogenicity

Not classified due to lack of data.

Components:

methyl methacrylate:

Species : Rat, male and female

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Application Route : Oral Exposure time : 2 Years

Dose : 6, 60, 2000 ppm Frequency of Treatment : once daily

NOAEL : 90,3 mg/kg bw/day

Result : negative

methacrylic acid:

Species : Rat, male and female Application Route : inhalation (vapour)

Exposure time : 102 weeks
Frequency of Treatment : 5 days/week

NOAEL : >= 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

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

according to Regulation (EC) No. 1907/2006



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Effects on foetal development

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

Application Route: Inhalation
Dose: 0, 50, 100, 200 or 300 ppm
Duration of Single Treatment: 14 d
Frequency of Treatment: 7 days/week
General Toxicity Maternal: NOAEL: 200 ppm
Developmental Toxicity: NOAEL: >= 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

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate:

Effects on foetal : Test Type: Pre-natal development : Species: Rat, females

Application Route: Oral

Dose: 100/300/1000 mg/kg bw/day

General Toxicity Maternal: NOAEL: 300 mg/kg body weight Developmental Toxicity: NOEL: 1 000 mg/kg body weight

Method: OECD Test Guideline 414

GLP: yes

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.

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

period

Method : OECD Test Guideline 413

GLP : yes

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

Species : Pig, male and female

NOAEL : >= 61 mg/kg

according to Regulation (EC) No. 1907/2006



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Application Route : oral (feed) Exposure time : daily

Method : Chronic toxicity

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate:

Species : Rat, male and female

NOEL : 100 mg/kg Application Route : oral (gavage)

Exposure time : 28 d

Number of exposures : 7 days/week

Dose : 0, 100, 300, or 1000 MKD Method : OECD Test Guideline 407

GLP : yes

Target Organs : Kidney, Stomach

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:

Toxicity to fish : LC50 : 191 mg/l

Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): > 79 mg/l

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Exposure time: 96 h

Test Type: flow-through test

Method: Fish Early-life Stage Toxicity Test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 : 69 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 : > 110 mg/l

Exposure time: 72 h

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC: 37 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: flow-through test Method: OECD Test Guideline 211

methacrylic acid:

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

End point: mortality 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

Exposure time: 72 h

Toxicity to algae/aquatic

plants

ErC50 (Selenastrum capricornutum (green algae)): 45 mg/l

Test Type: static test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 201

GLP: yes

NOEC (Selenastrum capricornutum (green algae)): 8,2 mg/l

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

GLP: yes

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

Exposure time: 16,5 h

according to Regulation (EC) No. 1907/2006



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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

M-Factor (Acute aquatic

toxicity)

: 1

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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/lExposure 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

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate:

LC50 (Oncorhynchus mykiss (rainbow trout)): > 112 mg/l Toxicity to fish

> Exposure time: 96 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 68 mg/l

Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (algae)): > 120 mg/l

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

Method: OECD Test Guideline 201

GLP: yes

NOEC (Pseudokirchneriella subcapitata (algae)): > 30 mg/l

Exposure time: 72 h

according to Regulation (EC) No. 1907/2006



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Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

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 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

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge, non-adapted

Concentration: 54,6 mg/l Result: Readily biodegradable. Biodegradation: 91,8 %

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Related to: Dissolved organic carbon (DOC)

Exposure time: 28 d

Method: OECD Test Guideline 301F

GLP: yes

α , α -dimethylbenzyl hydroperoxide:

Biodegradability : Result: Not readily biodegradable.

12.3 Bioaccumulative potential

Components:

methyl methacrylate:

Bioaccumulation : Bioconcentration factor (BCF): 3

Partition coefficient: n-

octanol/water

log Pow: 1,38

methacrylic acid:

Partition coefficient: n-

: 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 amond : 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

according to Regulation (EC) No. 1907/2006



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(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 : 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

ADN : UN 2924
ADR : UN 2924
RID : UN 2924
IMDG : UN 2924
IATA : UN 2924

14.2 UN proper shipping name

ADN : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

(METHYL METHACRYLATE, METHACRYLIC ACID)

ADR : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

(METHYL METHACRYLATE, METHACRYLIC ACID)

RID : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

(METHYL METHACRYLATE, METHACRYLIC ACID)

IMDG : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

(METHYL METHACRYLATE, METHACRYLIC ACID)

IATA : Flammable liquid, corrosive, n.o.s.

(METHYL METHACRYLATE, METHACRYLIC ACID)

14.3 Transport hazard class(es)

according to Regulation (EC) No. 1907/2006



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		Class	Subsidiary risks
ADN	:	3	8
ADR	:	3	8
RID	:	3	8
IMDG	:	3	8
IATA	:	3	8

14.4 Packing group

ADN

Packing group : II
Classification Code : FC
Hazard Identification Number : 338
Labels : 3 (8)

ADR

Packing group : II
Classification Code : FC
Hazard Identification Number : 338
Labels : 3 (8)
Tunnel restriction code : (D/E)

RID

Packing group : II
Classification Code : FC
Hazard Identification Number : 338
Labels : 3 (8)

IMDG

Packing group : II
Labels : 3 (8)
EmS Code : F-E, S-C

IATA (Cargo)

Packing instruction (cargo : 363

aircraft)

Packing instruction (LQ) : Y340
Packing group : II

Labels : Flammable Liquids, Corrosive

IATA (Passenger)

Packing instruction : 352

(passenger aircraft)

Packing instruction (LQ) : Y340
Packing group : II

Labels : Flammable Liquids, Corrosive

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

according to Regulation (EC) No. 1907/2006



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IMDG

Marine pollutant : no

14.6 Special precautions for user

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

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - List of substances subject to authorisation (Annex XIV)

REACH - Candidate List of Substances of Very High 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.

cumene (Number on list 28)

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

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).

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

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.

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.

according to Regulation (EC) No. 1907/2006



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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 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

DE DFG MAK : Germany, MAK BAT Annex IIa

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 DFG MAK / MAK : MAK value

DE TRGS 900 / AGW : Time Weighted Average

Further information

Classification of the mixture: Classification procedure:

Flam. Liq. 2	H225	Based on product data or assessment
Skin Corr. 1B	H314	Based on product data or assessment
Eye Dam. 1	H318	Based on product data or assessment
Skin Sens. 1	H317	Calculation method

STOT SE 3 H335 Calculation method Aquatic Chronic 3 H412 Calculation method

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Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and

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behaviour should be determined by the user and made known to handlers, processors and end users.

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