

Safety Data Sheet

According to 1907/2006/EC Article 31

STARCOAT PMMA VEHICULAR COAT

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

1.1 Product identifier

Trade name: STARCOAT PMMA VEHICULAR COAT

1.2 Relevant identified uses of the substance or mixture and uses advised against See Section 16

Application of the substance / the mixture Textured Coating

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier

Axter Ltd, Harbour Landing, Fox's Marina,
The Strand, Wherstead, Ipswich IP2 8NJ
Tel: +44 (0) 1473 724056
Email: info@axterltd.co.uk
Website: www.axter.co.uk

1.4 Emergency telephone

Axter Ltd - +44 (0) 1473 724056
(this line is open from 8.00 am to 5.30 pm, Monday to Friday).
In the event of a medical enquiry involving this product, members of
the public should contact:
NHS 111
a doctor or
a local hospital accident and emergency department.
The NPIS (National Poisons Information Service) helpline is available
for enquiries from medical professionals only.
Tel: 0344 892 0111

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3

H226 Highly flammable liquid and vapour.



GHS08

Repr. 2

H361d Suspected of damaging the unborn child.



GHS07

Skin Irrit.2

H315 Causes skin irritation.

Skin Sens. 1

H317 May cause an allergic skin reaction.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02



GHS08



GHS07

Signal word Warning

Hazard determining components of labelling:

Methyl methacrylate

2-phenoxyethyl acrylate

Ethoxyliertes Phenylacrylat

Reaction mass of 2,2'-[[4-methylphenyl]imino]bisethanol and 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-ethanol

Hazard statements

H226

Highly flammable liquid and vapour.

H317

May cause an allergic skin reaction.

H361d

Suspected of damaging the unborn child.

H412

Harmful to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours.
P280	Wear protective gloves/ eye protection.
P303+P361+P353	IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin with water/shower.
P312	Call a POISON CENTER/ doctor if you feel unwell.
P403+P235	Store in a well-ventilated, cool place.

Additional information

EUH204	Contains isocyanates. May produce an allergic reaction.
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2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Does not meet the PBT-criteria of Annex XIII of REACH (self assessment).

vPvB: Does not meet the vPvB-criteria of Annex XIII of REACH (self assessment).

Section 3: Composition/information on ingredients**3.2 Mixtures**

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous components:			
CAS: 80-62-6 EINECS: 201-297-1 Reg.nr.: 01-2119452498-28	methyl methacrylate	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	≥2.5-<10%
CAS: 48145-04-6 EINECS: 256-360-6 Reg.nr.: 01-2119980532-35	2-phenoxyethyl acrylate Repr. 2, H361d; Aquatic Chronic 2, H411; Skin Sens. 1A, H317		≥3-<10%
CAS: 103-11-7 EINECS: 203-080-7 Reg.nr.: 01-2119453158-37	2-ethylhexyl acrylate Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412		≥1-<2.5%
	Ethoxyliertes Phenylacrylat Aquatic Chronic 2, H411; Skin Sens. 1, H317		≥0.1-<0.25%
EC number: 911-490-9 Reg.nr.: 01-2119979579-10		Reaction mass of 2,2'-[(4-methylphenyl)imino] bisethanol and 2-[[2-(2-hydroxyethoxy)ethyl] (4-methylphenyl)amino]-ethanol Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥0.1-≤0.5%

Additional information: For the wording of the listed hazard phrases refer to section 16.

Section 4: First aid measures

4.1 Description of first aid measures

General information:

Immediately remove any clothing soiled by the product. Take affected persons out of danger area and lay them down. Involve doctor immediately.

After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

Take affected persons into fresh air and keep them quiet.

Seek medical treatment.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Headache

Dizziness

Skin sensitization

Irritant to skin, eyes and respiratory system

4.3 Indication of any immediate medical attention and special treatment needed

After inhalation, even in the absence of signs of illness, give inhaled Corticoid (e.g. Ventolair).

Section 5: Firefighting measures

5.1 Extinguishing materials

Suitable extinguishing agents: CO₂, sand, extinguishing powder, foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Vapours are heavier than air.

Vapours can spread to some distance from the source of fire.

5.3 Advice for firefighters

Protective equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device.

Additional information

Cool endangered receptacles with water spray. Collect contaminated fire-fighting water separately.

It must not enter the sewage system.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation



Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in the case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Do not flush with water or aqueous cleansing agents.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

Section 7: Handling and storage

7.1 Precautions for safe handling

Cool down container when heated. Cool containers exposed to heat with water. Emergency cooling must be provided in the event of an ambient fire. Keep container tightly closed to prevent heat build up (pressure increase). Avoid heat.

Do not refill remnants into storage receptacles.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). At least 7-fold air changes per hour.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Highly volatile, flammable constituents are released during processing.

Keep product away from ignition sources. Do not smoke.

Fumes can combine with air to form an explosive mixture.

Only explosion-proof equipment should be used.

Protect against electrostatic charges.

Protect from heat.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Store in a cool location.

Information about storage in one common storage facility:

Store away from oxidising agents.

Store away from foodstuffs.

Further information about storage conditions:

Store in cool, dry conditions in well-sealed receptacles.

Storage in a collecting room is required.

Store under lock and key and with access restricted to technical experts or their assistants only.

Max storage temperature 30°C.

Keep container tightly sealed.

Protect from heat and direct sunlight.

7.3 Specific end use(s) Building coating or sealing.**Section 8: Exposure controls/personal protection**

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring in the workplace:		
80-62-6 methyl methacrylate (2.5-<10%)		
WEL	Short-term value: 416mg/m ³ , 100ppm Long-term value: 208mg/m ³ , 50ppm	
DNELs		
80-62-6 methyl methacrylate		
Inhalative	DNEL (worker)	210mg/m ³ (Long-term - local effects) 210mg/m ³ (Long-term - systemic effects) Long term
	DNEL (population)	74.3mg/m ³ (Long-term - systemic effects) 105mg/m ³ (Long-term - local effects)
48145-04-6 2-phenoxyethyl acrylate		
Dermal	DNEL (worker)	3.5mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (worker)	12mg/m ³ (Long-term - systemic effects) 77mg/m ³ (Long-term - local effects)
103-11-7 2-ethylhexyl acrylate		
Dermal	DNEL	242µg/cm ² (Employee / Industrial / Commercial) Long-term and short-term
Inhalative	DNEL	37.5mg/m ³ (Employee / Industrial / Commercial)
Reaction mass of 2,2'-[[4-(methylphenyl)imino]bisethanol and 2-[[2-(2-hydroxyethoxy)ethyl] (4-methylphenyl)amino]-ethanol		
Dermal	DNEL (worker)	1.4mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (worker)	9.8mg/m ³ (Long-term - systemic effects)
PNECs		
80-62-6 methyl methacrylate		
PNEC sediment	1.47mg/kg dw (ground) 5.74mg/kg dw (freshwater)	
PNEC	0.094mg/l (seawater) 0.94mg/l (freshwater)	

48145-04-6 2-phenoxyethyl acrylate	
PNEC	0.006mg/kg (ground) 0.002mg/kg (sediment)
PNEC	0.002mg/l (seawater) 0.02mg/l (water)
103-11-72 ethylhexyl acrylate	
Boden	2.3mg/l (Soil micro-organisms) 1 mg/l (ground)
PNEC	0.0023mg/kg (oral intake)
Water	0.126mg/l (sediment) 0.002727mg/l (freshwater)
Reaction mass of 2,2'-[[4-methylphenyl]imino]bisethanol and 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-ethanol	
PNEC sediment	0.12mg/kg dw (seawater) 1.2mg/kg dw (water)
PNEC	0.005mg/l (seawater) 0.048mg/l (water)

Additional information: The lists valid at the time were used as a basis.

8.2 Exposure controls

Personal protective equipment:



General protective and hygienic measures

Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.

Respiratory protection

Ensure good ventilation.
In case of brief exposure or low pollution use respiratory filter device A1. In case of intensive or longer exposure use A2 self-contained respiratory protective device. The use of protective breathing hood is recommended since no carrying time limits are valid.

Protection of hands

Protective gloves
Glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Select glove material on consideration of the penetration times, rates of diffusion and degradation.
Preventive skin protection by use of skin-protecting agents is recommended. After use of gloves apply skin-cleaning agents and skin cosmetics.
Check protective gloves prior to each use for their proper condition. Due to lack of test data no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Material of gloves

Butyl rubber gloves - butyl e.g. KCL BUTOJET
 Recommended thickness of the material: ≥ 0.7 mm
 Breakthrough time: ≥ 480 min
 The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
 Protective gloves according to EN 374.
 Suitable material: nitrile.

Penetration time of glove material

Our recommendation is mainly for a one-time use as a short-term protection against liquid splashes. For other applications, you should contact a glove manufacturer.
 The exact break through time must be found out from the manufacturer of the protective gloves and must be observed.

For permanent contact in work areas without heightened risk of injury (e.g. Laboratory), gloves made of the following material are suitable

Butyl rubber, BR

For permanent contact, gloves made of the following materials are suitable

Butyl rubber, BR

Not suitable are gloves made of the following material

Leather

Eye protection

Tightly sealed goggles, EN-Standard: EN 166

Body protection

Protective work clothing

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Fluid
Colour:	Various
Odour:	After MMA
Odour threshold:	Not determined
pH-value:	Mixture is non-polar/aprotic

Change in condition

Melting point/melting range:	Not determined
Initial boiling point/boiling range:	Not determined
Flash point:	37°C
Flammability (solid, gaseous):	Not applicable
Decomposition temperature:	Not determined

Self-igniting:	Product is not self-igniting
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible Not determined
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapour pressure:	Not determined
Density at 20 °C:	1.87g/cm ³ (EN ISO 2811-1)
Relative density:	Not determined
Vapour density:	Not determined
Evaporation rate:	Not determined
Solubility in / miscibility with water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	log Pow: 4.29 (2-EHA); (25°C, OECD 107); log Pow: 1.38 (MMA)
Viscosity:	
Dynamic at 20°C:	10,500-12,500mPas (EN ISO 2555)
Kinematic:	Not determined
Solvent content:	
Organic solvents:	0.2%
VOC (EC):	0.16%
Solids content:	85.5%
9.2 Other information	No further relevant information available.

Section 10: Stability and reactivity

10.1 Reactivity see Section 10.2

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Exothermic reaction.

Reacts with peroxides and other radical forming substances.

A hazardous polymerization may occur after the exhaustion of the inhibitor.

10.4 Conditions to avoid: Heat and direct sunlight.

10.5 Incompatible materials: Reactions with peroxides and other free radical generators.

10.6 Hazardous decomposition products:

No dangerous decomposition products used according to specifications.

Additional information:

Emergency procedures will vary depending on individual circumstances. The customer should have a contingency plan at the workplace where the product is present.

Section 11: Toxicological information

11.1 Information on toxicological effects There were no toxicological findings to the mixture.
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
80-62-6 methyl methacrylate		
Oral	LD50 NOAEL	> 5000 mg/kg (rat) (OECD 401) 2000 ppm (rat) In drinking water, 6-2000 ppm Findings: no toxic effects
Dermal Inhalative	LC50 NOAEL	> 5000 mg/kg (rabbit) 25 ppm (rat) 25-400 ppm Findings: Damage to mucous membranes in the nose at 400 ppm
	LC50/4h	29.8 mg/l (rat)
48145-04-6 2-phenoxyethyl acrylate		
Oral	LD50 NOAEL	>5,000 mg/kg (rat) 200 mg/kg (rat)
103-11-7 2-ethylhexyl acrylate		
Oral Dermal	LD50 LC50	4435 mg/kg (rat) (BASF-Test) 7520 mg/kg (hare)
Reaction mass of 2,2'-[[4-(methylphenyl)imino]bisethanol and 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-ethanol		
Oral	LD50	500 mg/kg (ATE)

Primary irritant effect:

Skin corrosion/irritation

Causes irritability and skin irritation.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Other information (about experimental toxicology):

Due to the high vapour pressure a harmful concentration in the air is quickly reached. At high concentrations a narcotic effect can occur.

Subacute to chronic toxicity:

Not tested.

Toxicokinetics, metabolism and distribution

The drug is metabolized rapidly (MMA).

Acute effects (acute toxicity, irritation and corrosivity)

Not tested

Repeated dose toxicity

No data available.

CMR effects (carcinogenicity mutagenicity and toxicity for reproduction)

Not tested
Repr. 2

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity	Suspected of damaging the unborn child.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

Section 12: Ecological information

12.1 Toxicity

80-62-6 methyl methacrylate	
EC3/16h	100mg/l (Pseudomonas putida) (Cell proliferation inhibition test, Bringamm-Kuehn)
48145-04-6 2-phenoxyethyl acrylate	
EC3/16h	EC10/21d 0.1mg/l (daphnia magna)
Aquatic toxicity:	
80-62-6 methyl methacrylate	
EC50/48h LC50/96h ErC50/72h NOEC/72h EC50/72h NOEC	69mg/l (daphnia magna) (OECD 202) >79mg/l (Rainbow trout) (OECD 203) > 110mg/l (Pseudokirchneriella subcapitata) (OECD 201) > 110mg/l (Selenastrum capricornutum) (OECD 201) > 110mg/l (Selenastrum capricornutum) (OECD 201) 9.4mg/l (Danio rerio) (OECD 210) Fish early life stage test, 35 days 37mg/l (daphnia magna) (OECD 211) 21 days
48145-04-6 2-phenoxyethyl acrylate	
LC50/48h EC50/48h EC50/72h	11.5mg/l (Leuciscus idus (Goldorfe)) 1.21mg/l (daphnia magna) 4.4mg/l (alga) 4.4mg/l (Alge (Desmodesmus subspicatus))
103-11-7 2-ethylhexyl acrylate	
Other (28d)	> 1000mg/kg (Soil microorganisms) (OECD 217) The product has not been tested. The statement has been derived from products of a similar structure or composition.
EC50/48h (static)	1.3mg/l (daphnia magna) (OECD-Richtline 202) Part 1
LC50/96h (static) NOEC/21d	1.81mg/l (Rainbow trout) (OECD 203) 0.19 mg/l (daphnia magna) The details of the toxic effect relate to the analytically determined concentration. The product has not been tested. The statement has been derived from products of a similar structure or composition.
EC50/72h (static)	1.71mg/l (scenedesmus subspicatus) (OECD 201) The details of the toxic effect relate to the analytically determined concentration.

12.2 Persistence and degradability No further relevant information available.

Other information: Easily biodegradable

12.3 Bioaccumulative potential: 2-EHA; can be accumulated in organisms.

Bioaccumulation potential: Bioconcentration factor: 282.4 (calculated).

12.4 Mobility in soil

MMA: A binding to the solid phase of soil, sediment and sewage sludge is not expected. From the water surface the substance is slowly evaporated into the atmosphere.

Where the substance into the environment is embodied preferably in the compartment into which it has emerged.

Additional ecological information:

BODS-value: 0.14g/g (MMA)

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment

PBT: Does not meet the PBT-criteria of Annex XIII of REACH (self assessment).

vPvB: Does not meet the vPvB-criteria of Annex XIII of REACH (self assessment).

12.6 Other adverse effects

No further relevant information available.

Section 13: Disposal considerations

13.1 Waste treatment methods

Hazardous waste according to Waste Catalogue (EWC). If recycling is not possible, removal of waste must be in compliance with local regulations.

Recommendation

Uncured product residues are special waste.

Cured product residues are not hazardous waste.



Must not be disposed of with household rubbish. Do not allow product to reach sewage system.

Waste disposal key:

The following Waste Codes of the European Waste Catalogue (EWC), are recommended.

Disposal must be coordinated with a local waste disposal company.

Liquid product:

080111 * paint and varnish containing organic solvents or other dangerous substances

080199 waste nec

Cured product residues:

080112 paint and varnish wastes other than those mentioned in 080111

080410 adhesive waste adhesives and sealants other than those mentioned in 080409

Uncleaned packaging:

Recommendation:

This product (liquid) and its container must be disposed of as hazardous waste. Disposal must be made in compliance with official regulations.

Section 14: Transport information

		REGULATORY INFORMATION			
		ADR	ADN	IMDG	IATA
14.1 UN Number		Void		Void	UN1263
14.2 UN Proper shipping name (PSN)		Void		Void	PAINT
14.3 Transport hazard class (es)	Class	Void	Void	Void	3 Flammable liquids.
	Classification code				
	Label				3
14.4 Packing Group		Void		Void	III
14.5 Environmental hazards	Marine pollutant	No	No	No	No
14.6 Special precautions for user		NA	NA	NA	NA

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

Transport/Additional information:

ADR

Remarks

Classification according to viscosity clause (2.2.3.1.5)
>450l: 3 F1,111(2. 2. 3.1.5)

IMDG

Remarks

Classification according to viscosity clause (2.3.2.5)
>450l: 3,111 (2. 3. 2. 5)

UN "Model Regulation":

Void

Section 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000t

National regulations:

Information about limitation of use:

Employment restrictions under the Maternity Protection Directive (94/33/EC).

Employment restrictions for maternity Directive (92/85/EEC) for expectant and nursing mothers.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Section 16: Other information

These figures relate to the product as delivered.

Sector of Use

Relevant identified uses of the mixture

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU19 Building and construction work

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

SU21 Consumer uses: Private households / general public / consumers

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Training hints

Instruction on handling and precautions (Technical Rule 555) should be given before use and should take place at least annually thereafter.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU) DNEL

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH) LC50

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Biocumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Sources:

www.gestis.de
www.echa.eu
logkow.cisti.nrc.ca

The data contained in this Safety Data Sheet (SDS) has been supplied as required by the EC REACH Regulation No. 1907/2006 and the EC Regulation No. 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided. Please ensure that it is passed to the appropriate person(s) in your company who are capable of acting on the information.

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