

Safety Data Sheet

STARCOAT PMMA CATALYST
(2016)

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

1.1 Product identifier

Trade name: STARCOAT PMMA CATALYST (2016)

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

Application of the substance / the mixture Hardening agent/ Curing agent

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

Self-react. D	H242 Heating may cause fire
Skin Sens.1	H317 May cause an allergic skin reaction
Eye Irrit. 2	H319 Causes serious eye irritation
Aquatic Acute 1	H400 Very toxic to aquatic life.
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effect

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

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

Hazard pictograms



Signal word Danger.

Hazard determining components of labelling:

Dibenzoyl peroxide.

Hazard statements

H242	Heating may cause a fire.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H410	Very toxic 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.
P234	Keep only in original packaging.
P273	Avoid release to the environment.
P280	Wear protective clothing/ eye protection.
P370+P378	In case of fire: Use CO2, powder or water spray to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT:

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

vPvB:

Does not meet the vPvB-criteria of Annex XIII of UK 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: 94-36-0 EINECS: 202-327-6 Reg.nr.: 01-2119511472-50	Dibenzoyl peroxide	25 - 50%
	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	
CAS: 94-49-5 EINECS: 202-338-6 Reg.nr.: 01-2120759933-41	Ethylene Glycol Dibenzoate	25 - 50%
	Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335; Aquatic Chronic 3, H412	

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 down.

If symptoms occur or in case of any doubt, consult a doctor. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice

After inhalation:

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

Take affected persons into fresh air and keep quiet.

Seek medical treatment.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

Remove wetted clothing immediately.

After eye contact:

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

After swallowing:

Rinse mouth with water (only if casualty if conscious).

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Irritant to skin, eyes and respiratory system.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Carbon dioxide, sand, extinguishing powder, foam.

Water spray.

For safety reasons unsuitable extinguishing agents:

Halone.

Water with full jet

5.2 Special hazards arising from the substance or mixture

In the event of decomposition without signs of fire, there is a risk of explosion due to the resulting vapour-air mixture. Caution: Re-ignition may occur. Decomposition under the influence of heat. Do not inhale in case of fire and / or explosion.

At the temperature of self-accelerating decomposition (+55 °C), explosive decomposition of the product occurs.

CAUTION: Re-ignition possible; the product maintains combustion processes.

Fire produces dense black smoke. Inhalation of hazardous decomposition products can cause serious damage to health.

Under certain fire conditions, traces of other toxic gases cannot be excluded.

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Benzoic acid, benzene

5.3 Advice for firefighters**Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Wear self-contained respiratory protective device.

Additional information

Cool endangered receptacles with water spray.

Evacuate all non-essential persons. Extinguish a small fire with powder or carbon dioxide and then use water to prevent re-ignition.

Section 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Do not inhale dust.

Keep away from ignition sources.

Avoidance of electrostatic charging.

If the temperature continues to rise, cool with a water jet from a safe distance.

Remove persons from danger area.

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 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

Ensure adequate ventilation.

Send for recovery or disposal in suitable receptacles.

First moisten with water.

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

Not giving remnants back into the storage vessels.
Keep receptacles tightly sealed.
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
Restrict the quantity stored at the work place.
Handle with care. Avoid jolting, friction and impact.
Providing good ventilating/suction at work.
At least 7-fold air changes per hour

Information about fire - and explosion protection:

Highly volatile, flammable constituents are released during processing.
Keep ignition sources away - Do not smoke.
Use explosion-proof apparatus / fittings and spark-proof tools.
Dust can combine with air to form an explosive mixture.
Substance/product is oxidising when dry.
Prevent impact and friction.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.
Prevent any seepage into the ground.
Use only receptacles specifically permitted for this substance/product.
Store in accordance with local and national regulations.
Store in a cool location.

Information about storage in one common storage facility:

Organic peroxides must not be set down or stored together with heavy metal compounds or amines or their preparations.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.
Max. Storage temperature 30 ° C
Store receptacle in a well ventilated area.
Protect from contamination.
Store in a cool place.
Keep contents moist.
Keep container tightly sealed.

Storage class:

Storage class 5.2 "Organic peroxides and self-reactive hazardous substances" in accordance with TRGS 510

7.3 Specific end use(s)

No further relevant information available.

Section 8: Exposure controls/personal protection

8.1 Control parameters

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

Ingredients with limit values that require monitoring at the workplace:		
94-36-0 Dibenzoyl peroxide (25-50%)		
WEL	Long-term value: 5 mg/m³	
DNELs		
94-36-0 Dibenzoyl peroxide		
Oral	DNEL (population)	1.65 mg/kg bw/day (population)
Dermal	DNEL	2.9 mg/m³ (population)
	DNEL	6.6 mg/kg bw/day (Employee / Industrial / Commercial)
		3.3 mg/kg bw/day (population)
Inhalative	DNEL	11.75 mg/m³ (Employee / Industrial / Commercial)
		2.9 mg/m³ (population)
94-49-5 Ethylene Glycol Dibenzoate		
Dermal	DNEL (worker)	3 mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (worker)	10.6 mg/m³ (Long-term - systemic effects)
PNECs		
94-36-0 Dibenzoyl peroxide		
Oral	PNEC oral	6.67 mg/kg (food)
		0.0758 mg/kg (ground)
		0.338 mg/kg (sediment) (freshwater)
	PNEC	0.35 mg/l (sewage plant)
		0.000602 mg/l (seawater)
		0.000602 mg/l (freshwater)
94-49-5 Ethylene Glycol Dibenzoate		
	PNEC	0.44 mg/l (ground)
		2.23 mg/l (sediment)
		0.00073 mg/l (seawater)
		0.0073 mg/l (freshwater)

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:



General protective and hygienic measures

Avoid contact with the eyes and skin.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Use skin protection cream for skin protection.
Keep away from foodstuffs, beverages and feed.
Avoid close or long term contact with the skin.
Avoid contact with the eyes.

Hand protection

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the 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.

General recommendation: The usage time of the protective gloves is approx. 50% of the penetration time measured in the laboratory!

Material of gloves

The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer.

Protective gloves according to EN 374.

Penetration time of glove material

Our Recommendation is mainly on a one-time use as a short-term protection Liquid splashes. For other applications, you should contact a glove manufacturer.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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

Neoprene gloves

Nitrile rubber, NBR

Gloves made of the following materials are suitable for permanent contact

Butyl rubber, BR

Gloves made of the following materials are not suitable

Leather gloves

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	Powder.
Colour	White.
Odour	Weak, characteristic.
Odour threshold	Not determinable.
pH-value at 20°C	~7

Change in condition:

Melting point/freezing point	58°C (Decomposition).
Initial boiling point and boiling range	Not applicable (Decomposes)

Flash point	Not applicable.
Flammability	Decomposition products may be flammable.
Decomposition temperature	SADT - (self-accelerating decomposition temperature) is the lowest temperature at which self-accelerating decomposition can occur in the transport packaging. A dangerous self-accelerating decomposition reaction under unfavourable conditions, explosion or fire can be caused by thermal decomposition at or above the SADT. Contact with incompatible substances can also cause decomposition below the SADT. Self-accelerating decomposition temperature (SADT): 55°C
Ignition temperature	Decomposition product(s) may be flammable.
Explosive properties	Product does not present an explosion hazard. Risk of explosion by shock, friction, fire or other sources of ignition.
Explosion limits:	
Lower	Not determined.
Upper	Not determined.
Oxidising properties	Not available.
Vapour pressure	Not applicable.
Density at 20°C	0.56-0.58 g/cm ³ (EN ISO 2811-1)
Bulk density	560-580 kg/m ³
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with water	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water	Dibenzoyl peroxide log POW 3.2 at 22 °C (OECD 107; ECHA)
Viscosity:	
Dynamic	Not applicable.
Kinematic	Not applicable.

9.2 Other information

Active oxygen 3.24 - 3.47 %

Section 10: Stability and reactivity

10.1 Reactivity

See Section 10.2.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

SADT - (self-accelerating decomposition temperature) is the lowest temperature at which self-accelerating decomposition can occur in the transport packaging.

A dangerous self-accelerating decomposition reaction, under unfavourable circumstances explosion or fire, can be caused by thermal decomposition at or above the specified temperature: 55 °C. Contact with incompatible substances may cause decomposition at or below the SADT 55 °C.

To avoid thermal decomposition do not overheat.

Avoid impact, friction, heat, sparks and electrostatic charge.

10.3 Possibility of hazardous reactions

Reacts with alkali, amines and strong acids.
Reacts with certain metals.

10.4 Conditions to avoid:

Avoid impact, friction, heat, sparks and electrostatic charge.

10.5 Incompatible materials:

Avoid contact with rust, iron and copper.
Hazardous decomposition on contact with incompatible substances such as acids, alkalis, heavy metals and reducing agents.
Do not mix with peroxide accelerators.
Only use stainless steel according to DIN 1.4571, PVC, polyethylene or glass-lined equipment.
Acids and bases
Iron
Copper
Reducing agents
Heavy metals
Rust.

10.6 Hazardous decomposition products:

In case of fire: see section 5.

Additional information:

Emergency procedures will vary depending on individual circumstances. The customer should have a contingency plan to the workplace may be 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:		
94-36-0 Dibenzoyl peroxide		
Oral	LD50	>2,000 mg/kg (mouse)
Inhalative	LC50	>24,300 mg/l (rat) (OECD 403)
94-49-5 Ethylene Glycol Dibenzoate		
Oral	LD50	>2,000 mg/kg (rat) (OECD 423)
	NOAEL	300 mg/kg (rat) (OECD 422)
		Exposure time 92 d

Primary irritant effect:**Skin corrosion/irritation**

Irritant effect.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Subacute to chronic toxicity:**94-36-0 Dibenzoyl peroxide**

Oral	NOAEL	NOAEL 200 mg/kg/d (rat) adverse effect observed 500 mg/kg/d (unknown) Concentration at which no adverse effect was observed.
	NOAEL/29d	1,000 mg/kg/d (unknown) Concentration at which no adverse effect was observed.

Additional toxicological information:**Repeated dose toxicity:****94-49-5 Ethylene Glycol Dibenzoate**

Oral	LOAEL / 92d	1,000 mg/kg (rat) (OECD 422)
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CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**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

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

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****94-49-5 Ethylene Glycol Dibenzoate**

EC50 / 3h (static)	>1,280 mg/l (activated sludge) (OECD 209)
EC50 / 21d	1.4 mg/l (daphnia magna) (OECD 211)
EC10 / 21d (static)	0.79 mg/l (daphnia magna) (OECD 211)

Aquatic toxicity**94-36-0 Dibenzoyl peroxide**

EC50	35 mg/l (bacteria) (Activated sludge respiration inhibition test) 0.5 h
EC50 / 48h	0.11 mg/l (daphnia magna) (OECD-Richtline 202)
LC50 / 96h	0.06 mg/l (fish)
NOEC / 72h	0.02 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EC50 / 72h)	0.0711 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC	0.077 mg/l (daphnia magna) (OECD-Richtline 202) 48 h 0.0316 mg/l (Rainbow trout) OECD 203 96 h

94-49-5 Ethylene Glycol Dibenzoate

LC50 / 96h (static)	>0.434 mg/l (Danio rerio) (Acute toxicity to fish)
ErC50 / 72h (static)	>0.87 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC / 72h (static)	0.045 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC / 21d (static)	0.65 mg/l (daphnia magna) (OECD 211)
NOEC (static)	0.073 mg/l (Danio rerio)

12.2 Persistence and degradability

Ethylene glycol dibenzoate

Biodegradability: Type of test: Closed bottle test

Biodegradation: 81 %

Exposure time: 28 d

Method: OECD Test Guideline 301D

GLP: yes

Readily biodegradable.

Dibenzoyl peroxide

Biodegradability: Result: Potentially biodegradable

12.3 Bioaccumulative potential

Dibenzoyl peroxide:

Partition coefficient: n-octanol/water : log Pow: 3.2 (20 °C)

12.4 Mobility in soil

Dibenzoyl peroxide log Koc: 6310 (22 °C)

Ecotoxicological effects:**Remark:**

Very toxic to aquatic organisms.

Toxic for fish

Additional ecological information:**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.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

12.5 Results of PBT and vPvB assessment**PBT:**

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

vPvB:

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

12.6 Other adverse effects

No further relevant information available.

Section 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

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

Recommendation

Must not be disposed together with household waste. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

Uncleaned packaging:

Recommendation:

Packaging must be completely emptied and disposed of properly in accordance with the statutory regulations.

Packaging that is not completely empty must be disposed of in consultation with the regional waste disposal company.

Disposal must be made according to official regulations.

Section 14: Transport information

14.1 UN number or ID number

ADR UN3106

IMDG UN3106

IATA UN3106

14.2 UN proper shipping name

ADR 3106 ORGANIC PEROXIDE TYPE D, SOLID
(Dibenzoyl peroxide, Ethylene Glycol Dibenzoate)

IMDG ORGANIC PEROXIDE TYPE D, SOLID (Dibenzoyl peroxide, Ethylene Glycol Dibenzoate)

IATA ORGANIC PEROXIDE TYPE D, SOLID (Dibenzoyl peroxide, Ethylene Glycol Dibenzoate)

14.3 Transport hazard class(es)

ADR



Class

5.2 (P1) Organic peroxides.

Label

5.2

IMDG**Class**

5.2 Organic peroxides.

Label

5.2

IATA**Class**

5.2 Organic peroxides.

Label

5.2

14.4 Packing group**ADR**

Void

IMDG

Void

IATA

Void

14.5 Environmental hazards**Marine pollutant**

Yes

Symbol (fish and tree)

Symbol (fish and tree)

Special marking (ADR)**14.6 Special precautions for user**

Warning: Organic peroxides.

**Hazard identification number
(Kemler code)**

-

EMS Number

F-J,S-R

Stowage Category

D

Stowage Code

SW1 Protected from sources of heat.

Segregation CodeSG35 Stow "separated from" SGG1-acids
SG36 Stow "separated from" SGG18-alkalis.
SG72 See 7.2.6.3.2**14.7 Transport in bulk according to Annex II
of Marpol and the IBC Code**

Not applicable.

Transport/Additional information**ADR****Limited quantities (LQ)**

500 g

Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

Transport category

2

Tunnel restriction code

D

IMDG**Limited quantities (LQ)**

500 g

Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

UN "Model Regulation"UN 3106 ORGANIC PEROXIDE TYPE D, SOLID
(DIBENZOYL PEROXIDE, ETHYLENE GLYCOL
DIBENZOATE), 5.2**Section 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Poisons Act****Regulated explosives precursors**

None of the ingredients is listed.

Regulated poisons

None of the ingredients is listed.

Reportable explosives precursors

None of the ingredients is listed.

Reportable precursors

None of the ingredients is listed.

Directive 2012/18/EU**Named dangerous substances - ANNEX I**

None of the ingredients is listed.

Seveso category P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

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

The information given in this Safety Data Sheet is given in good faith and based on our current knowledge. We reserve the right to update and modify this document as necessary. The information in this sheet does not constitute a risk assessment for the workplace. While every effort is made to ensure that the information is accurate and up to date, it is not intended to form part of a contract or to imply any additional liability, which is expressly excluded.

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.

Training hints

Teaching about hazards and precautions to hand the operating instructions (Technical Rule 555).

Instruction must take place before the start of employment and at least annually thereafter.

Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

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

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)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Self-react. D: Self-reactive substances and mixtures – Type C/D

Org. Perox. B: Organic peroxides – Type B

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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

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