



SAFETY DATA SHEET

Version number:	5
Issued:	2025-03-06
Replaces SDS:	2022-12-13

According to Regulation (EC) No 1907/2006

BHP Polyester

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

1.1. Product identifier

Trade name

BHP Polyester

Article No.

100101

UFI code

QD3T-NF10-X99U-Y4YQ

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

Product type

Polyester resin

Relevant identified uses

Professional use

Industrial uses

Consumer use

1.3. Details of the supplier of the safety data sheet

Supplier

Färg-In AB

Address

Bodalsvägen 6
681 43 Kristinehamn
Sweden

Telephone

+46 55010045

Email

info@fargin.se

Web site

www.fargin.se

Contact person

Johan Thynell

1.4. Emergency telephone number

See National Telephone Number (112) (Poison control center)

Available outside office hours

Yes



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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Skin irritation, hazard category 2
Reproductive toxicity, hazard category 2
Specific Target Organ Toxicity — Repeated exposure, hazard category 1
Eye irritation, hazard category 2
Specific Target Organ Toxicity — Single exposure, hazard category 3
Hazardous to the aquatic environment — Chronic hazard category 3
Flammable liquids, hazard category 3

Hazard statements

H226, H315, H319, H335, H361d, H372, H412

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H361d Suspected of damaging the unborn child
H372 Causes damage to organs through prolonged or repeated exposure .
H412 Harmful to aquatic life with long lasting effects.

Supplemental hazard statements

EUH208 Contains Cobolt bis(2-ethylhexanoate). May produce an allergic reaction.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor.
P501 Dispose of contents/container to approved waste receiver.



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More information

Contains: styrene , Cobolt bis(2-ethylhexanoate) , hydrocarbons c4 , Silica, amorphous, fumed, crystalline-free

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Specific concentration limits ATE	Note
styrene	100-42-5 202-851-5 01-2119457861-32 601-026-00-0	40 - 45%	Flam. Liq. 3, Skin Irrit. 2, Eye Irrit. 2, Acute Tox. 4 - inhalation, Repr. 2, STOT RE 1	H226, H315, H319, H332, H361d, H372 - -		D
Hydrocarbons, C4-, 1, 3-butadiene-free, polymerized, triisobutylene fraction, hydrogenated	93685-81-5 297-629-8 - -	0.5 - 1.5%	Flam. Liq. 3, Asp. Tox. 1, Aquatic Chronic 4	H226, H304, H413 - -		-
Silica, amorphous, fumed, crystalline-free	112945-52-5 231-545-4 01-2119379499-16 -	0.1%	-	- - -		-
Cobolt bis(2-ethylhexanoate)	136-52-7 205-250-6 01-2119524678-29 -	0.01 - <0.1%	Skin Sens. 1A, Eye Irrit. 2, Repr. 1B, Aquatic Acute 1, Aquatic Chronic 3	H317, H319, H360Fd., H400, H412 M-acut=1 -		-

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.



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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

If respiratory problems, artificial respiration/oxygen. Get medical attention.

Skin contact

Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Rinse cautiously with water for several minutes.

Get medical attention promptly if symptoms occur after washing.

Eye contact

Get medical attention immediately. Continue to rinse.

Immediately flush with plenty of water or eyewash solution for up to 10 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Get immediate medical advice/attention.

Information for doctors

Treat symptomatically.

4.2. Most important symptoms and effects, both acute and delayed

Suspected of damaging the unborn child.

Causes serious eye irritation.

Causes damage to organs (hearing organs) through prolonged or repeated exposure.

Inhalation

Harmful if inhaled.

Skin contact

Irritating to skin.

May cause an allergic skin reaction.

Eye contact

Causes serious eye irritation.

Ingestion

Harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



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Other

Information to rescue personnel

Use personal protective equipment as required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam, carbon dioxide or dry powder. Dry chemicals, sand, dolomite etc.

Unsuitable extinguishing media

Avoid water in straight hose stream; will scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.

Hazardous combustion products: Carbon monoxide (CO).

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

Cool containers exposed to flames with water until well after the fire is out.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For personal protection, see section 8.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Do not smoke or use open fire, or other sources of ignition.

Provide adequate ventilation.

Evacuate area.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Absorb in vermiculite, dry sand or earth and place into containers.

Remove sources of ignition. Beware of the explosion danger.

Use only non-sparking tools.



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6.4. Reference to other sections

For personal protection, see section 8.
See section 12.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Wear personal protection equipment (refer to section 8).
Ground container and transfer equipment to eliminate static electric sparks.
Flammable/combustible - Keep away from oxidisers, heat and flames.
Keep away from heat, sparks and open flame.
Do not use in confined spaces without adequate ventilation and/or respirator.

General hygiene

Do not eat, drink or smoke when using this product.
Private clothes and working clothes should be kept separately.

7.2. Conditions for safe storage, including any incompatibilities

Store in closed original container at temperatures between 5°C and 30°C.
Store in a well-ventilated place.
Keep away from heat, sparks and open flame.
Avoid contact with oxidising agents.
Store isolated from reducing agents.

7.3. Specific end use(s)

Do not handle until all safety precautions have been read and understood.



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BHP Polyester**SECTION 8: Exposure controls/personal protection****8.1. Control parameters***National occupational exposure limits*

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Short-term exposure limit ppm / mg/m ³	Source	Remark	Year
styrene	100-42-5 202-851-5	100 / 430 /	250 / 1080 /	EH40/2005		-
Cobolt bis(2-ethylhexanoate)	136-52-7 205-250-6	- / 0.1 /	- / - /	EH40/2005	Cobalt and Cobalt compounds (as Co); Carc (cobalt dichlor- ide and sulphate), Sen	-

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
styrene (100-42-5/202-851-5)	DNEL	Acute (short term) Inhalation	289 mg/m ³	Workers	Systemic
styrene (100-42-5/202-851-5)	DNEL	Acute (short term) Inhalation	306 mg/m ³	Workers	Local
styrene (100-42-5/202-851-5)	DNEL	Chronic (long term) Dermal	406 mg/kg bw/day	Workers	Systemic
styrene (100-42-5/202-851-5)	DNEL	Chronic (long term) Inhalation	85 mg/m ³	Workers	Systemic
styrene (100-42-5/202-851-5)	DNEL	Acute (short term) Inhalation	174.25 mg/m ³	Consumers	Systemic
styrene (100-42-5/202-851-5)	DNEL	Acute (short term) Inhalation	182.75 mg/m ³	Consumers	Local
styrene (100-42-5/202-851-5)	DNEL	Chronic (long term) Dermal	343 mg/kg bw/day	Consumers	Systemic
styrene (100-42-5/202-851-5)	DNEL	Chronic (long term) Inhalation	10.2 mg/m ³	Consumers	Systemic
styrene (100-42-5/202-851-5)	DNEL	Chronic (long term) Oral	2.1 mg/kg bw/day	Consumers	Systemic
Silica, amorphous, fumed, crystalline-free (112945-52-5/231-545-4)	DNEL	Chronic (long term) Inhalation	4 mg/m ³	Workers	Systemic
Cobolt bis(2-ethylhexanoate) (136-52-7/205-250-6)	DNEL	Chronic (long term) Oral	55.8 µg/kg bw/day	Consumers	Systemic



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Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
Cobolt bis(2-ethylhexanoate) (136-52-7/205-250-6)	DNEL	Chronic (long term) Inhalation	235 µg/m ³	Workers	Local
Cobolt bis(2-ethylhexanoate) (136-52-7/205-250-6)	DNEL	Chronic (long term) Inhalation	37 µg/m ³	Consumers	Local

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
styrene (100-42-5/202-851-5)	PNEC	Freshwater	0.028 mg/l
styrene (100-42-5/202-851-5)	PNEC	Marine water	0.0028 mg/l
styrene (100-42-5/202-851-5)	PNEC	Sediment (freshwater)	0.614 mg/kg
styrene (100-42-5/202-851-5)	PNEC	Sediment (marine water)	0.0614 mg/kg
styrene (100-42-5/202-851-5)	PNEC	Soil	0.2 mg/kg
styrene (100-42-5/202-851-5)	PNEC	Sewage Treatment Plant	5 mg/l
Silica, amorphous, fumed, crystalline-free (112945-52-5/231-545-4)	PNEC	Oral (Secondary Poisoning)	60000 mg/kg
Cobolt bis(2-ethylhexanoate) (136-52-7/205-250-6)	PNEC	Freshwater	0.51 µg/l
Cobolt bis(2-ethylhexanoate) (136-52-7/205-250-6)	PNEC	Marine water	2.36 µg/l
Cobolt bis(2-ethylhexanoate) (136-52-7/205-250-6)	PNEC	Sediment	9.5 mg/kg
Cobolt bis(2-ethylhexanoate) (136-52-7/205-250-6)	PNEC	Soil	7.9 mg/kg
Cobolt bis(2-ethylhexanoate) (136-52-7/205-250-6)	PNEC	Sewage Treatment Plant	0.37 mg/l

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

Observe occupational exposure limits and minimise the risk of inhalation of dust.

Provide eyewash, quick drench.



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Personal Protective Equipment Symbols



Eye / face protection

Eye glasses with side protection
Do not wear contact lenses.

Hand protection

Wear protective gloves.
The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Other skin protection

Anti-static boots.

Respiratory protection

At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used.

Environmental exposure controls

See section 6.

Other

If medical advice is needed, have product container or label at hand.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Blue.

Odour

pungent

Odour threshold

0,15 ppm

Method

Test reference: Styrene

Melting point / freezing point

~ -30 °C



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Boiling point or initial boiling point and boiling range

146 °C

Flammability

No data available

Lower and upper explosion limit

1.1 - 6.1 %

Method

Styrene

Flash point

31 °C

Method

CC (Closed cup).

Auto-ignition temperature

490 °C

Method

Test reference: Styrene

Decomposition temperature

No data available

pH

No data available

Kinematic viscosity

> 0,4 cm²/s; 40 °C

Solubility

No data available

Water solubility

Insoluble in water.

Partition coefficient n-octanol/water

3

Method

Test reference: Styrene

Vapour pressure

6.7 hPa

Method

Test reference: Styrene

Density and/or relative density

No data available



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Relative density

1.08 - 1.12

Relative vapour density

No data available

Evaporation Rate

0,49 (BuAc = 1)

Particle characteristics

No data available

9.2. Other information

No data available

Other

Vapour density: 1.08 - 1.12 g/cm³

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating may cause a fire.

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

In use may form flammable/explosive vapour-air mixture.

Polymerization can occur.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

Keep cool. Protect from sunlight.

Take precautionary measures against static discharges.

10.5. Incompatible materials

Avoid contact with oxidising agents.

Strong reducing agents.

Inorganic peroxides.

Organic peroxides/hydroperoxides.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.



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SECTION 11: Toxicological information

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

Acute toxicity

May cause respiratory irritation.

Harmful if swallowed.

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline	Remarks
styrene 100-42-5 / 202-851-5	LD50	5000 mg/kg	Oral	-	Rat	-	-
styrene 100-42-5 / 202-851-5	LD50	> 2000 mg/kg	Dermal	-	Rat	-	-
styrene 100-42-5 / 202-851-5	LC50	11,8 mg/l	Inhalation.	4 hours	Rat	-	-
styrene 100-42-5 / 202-851-5	LD50	2650 mg/kg	Oral	-	Rat	-	-
styrene 100-42-5 / 202-851-5	LC50	2770 ppm	Inhalation.	4 hours	Rat	-	Vapour
styrene 100-42-5 / 202-851-5	LC50	11800 ppm	Inhalation.	4 hours	Rat	-	Vapour
styrene 100-42-5 / 202-851-5	NOAEL	615 mg/kg	Dermal	-	Rat	-	-
styrene 100-42-5 / 202-851-5	NOAEL	20 ppm	Inhalation.	-	Rat	-	Gas.
styrene 100-42-5 / 202-851-5	LD50	5000 mg/kg	-	-	Rat	-	-
styrene 100-42-5 / 202-851-5	LD50	> 2000 mg/kg	-	-	Rat	-	-
Cobolt bis(2-ethylhexanoate) 136-52-7 /	LD50	3129 mg/kg	Oral	-	Rat	OECD 425	-



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Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline	Remarks
205-250-6							
Cobolt bis(2-ethylhexanoate) 136-52-7 / 205-250-6	LD50	1.22 g/kg	Oral	-	Rat	-	-

Skin corrosion/irritation

Causes skin irritation.

Product / Substance name CAS / EC no.	Result	Value / Dose	Species
styrene 100-42-5 / 202-851-5	Slightly irritating.	500 mg	Rabbit
styrene 100-42-5 / 202-851-5	Moderately Irritating.	100%	Rabbit

Serious eye damage/irritation

Causes serious eye irritation.

Product / Substance name CAS / EC no.	Result	Value / Dose	Duration of exposure	Species
styrene 100-42-5 / 202-851-5	Slightly irritating.	50 ppm	-	Human
styrene 100-42-5 / 202-851-5	Moderately Irritating.	100 mg	24 hours	Rabbit
styrene 100-42-5 / 202-851-5	Strongly irritating.	100 mg	-	Rabbit

Respiratory or skin sensitisation

May cause an allergic skin reaction.

May cause respiratory irritation.

Germ cell mutagenicity

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

Carcinogenicity

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



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Repeated dose toxicity

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

Reproductive toxicity

H361d Suspected of damaging the unborn child

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Causes damage to organs (central nervous system) through prolonged or repeated exposure.
Target organs : ears , central nervous system

Aspiration hazard

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

Toxicity in case of inhalation

General respiratory distress, unproductive cough.

Toxicity in case of skin contact

Skin irritation.

Allergic rash.

Toxicity in case of eye contact

H319 Causes serious eye irritation.

Toxicity in case of ingestion

However, ingestion may cause nausea, stomach pain and vomiting.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Harmful to aquatic life with long lasting effects.

Acute fish toxicity

Product / Sub-stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
styrene	LC50	3,24 - 4,99 mg/l	96 hours	Pimephales pro-	flow-through	-



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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
100-42-5 / 202-851-5				melas (Fat-head Minnow)		
styrene 100-42-5 / 202-851-5	LC50	58,75-95,32 mg/l	96 hours	Poecilia reticulata (Guppy)	static.	-
styrene 100-42-5 / 202-851-5	LC50	4020 µg/l	96 hours	Pimephales promelas (Fat-head Minnow)	-	Freshwater
styrene 100-42-5 / 202-851-5	LC50	3,24-95,32 mg/l	96 hours	Pimephales promelas (Fat-head Minnow)	-	-

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Remark
styrene 100-42-5 / 202-851-5	EC50	0,46 - 4,3 mg/l	72 hours	Pseudokirchneriella subcapitata	-
styrene 100-42-5 / 202-851-5	EC50	33 mg/l	96 hours	Pseudokirchneriella subcapitata	Freshwater
Cobolt bis(2-ethylhexanoate) 136-52-7 / 205-250-6	EC50	0.639 mg/l	-	-	-

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
styrene 100-42-5 / 202-851-5	EC50	3,3 - 7,4 mg/l	48 hours	Daphnia magna

Chronical toxicity



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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
styrene 100-42-5 / 202-851-5	NOEC	1,01 mg/l	21 days	Daphnia magna

12.2. Persistence and degradability

The product is readily biodegradable.

12.3. Bioaccumulative potential

Product / Substance name CAS / EC no.	LogKow / LogPow	Bioconcentration factor (BCF)	Result	Species
styrene 100-42-5 / 202-851-5	2,96	35,5	-	Fish
styrene 100-42-5 / 202-851-5	-	13.39	Low	-
styrene 100-42-5 / 202-851-5	2,95	74	-	-
Cobolt bis(2-ethylhexanoate) 136-52-7 / 205-250-6	-	15600	-	-

12.4. Mobility in soil

Mobility

Product / Substance name CAS / EC no.	KOC	Mobility	Remark
styrene 100-42-5 / 202-851-5	-	0,032 N/m	19 °C
styrene 100-42-5 / 202-851-5	2.55	-	-

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

None known.



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Dispose of waste and residues in accordance with local authority requirements.

Make sure containers are empty before discarding (explosion risk).

Waste is classified as hazardous waste.

Waste code	Waste description
07 02 04*	other organic solvents, washing liquids and mother liquors

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

Other

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

SECTION 14: Transport information

14.1. UN number

1866

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

RESIN SOLUTION, flammable

IMDG proper shipping name

RESIN SOLUTION, flammable

IATA proper shipping name

Resin solution flammable



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14.3. Transport hazard class(es)

Label

ADR/RID/ADN



3

IMDG



3

IATA



3

ADR / RID Class

3

ADR / RID Classification code

F1

ADR / RID hazard identification number

30

IMDG Class

3

IATA Class

3

ADN Class

3

ADN Class Code

F1



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14.4. Packing group

ADR / RID / ADN: III
IMDG: III
IATA: III

14.5. Environmental hazards

Environmental hazards

No

IMDG Marine Pollutant

No

14.6. Special precautions for user

Special precautions for user

Tunnel restriction code: D/E
Transport category: 3

IMDG EmS

F-E, S-E

14.7. Maritime transport in bulk according to IMO instruments

IBC Instruction: IBC03

SECTION 15: Regulatory information

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

National regulations

No data available

15.2. Chemical safety assessment

Yes

SECTION 16: Other information

Changes to previous revision

changed substances in 3.2
changed H-phrases and P-phrases



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Phrase meaning

Skin Irrit. 2 - Skin irritation, hazard category 2

Repr. 2 - Reproductive toxicity, hazard category 2

STOT RE 1 - Specific Target Organ Toxicity — Repeated exposure, hazard category 1

Eye Irrit. 2 - Eye irritation, hazard category 2

STOT SE 3 - Specific Target Organ Toxicity — Single exposure, hazard category 3

Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3

Flam. Liq. 3 - Flammable liquids, hazard category 3

Acute Tox. 4 - inhalation - Acute toxicity, inhalation, hazard category 4

Skin Sens. 1A - Skin sensitisation, hazard category 1, sub-category 1A

Repr. 1B - Reproductive toxicity, hazard category 1B

Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1

Asp. Tox. 1 - Aspiration hazard, hazard category 1

Aquatic Chronic 4 - Hazardous to the aquatic environment — Chronic hazard category 4

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H360Fd May damage fertility. Suspected of damaging the unborn child

H361d Suspected of damaging the unborn child

H372 Causes damage to organs through prolonged or repeated exposure .

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

EUH208 Contains Cobolt bis(2-ethylhexanoate). May produce an allergic reaction.

Other

Additional information

This information is based on the information known to us at the time of preparation and it has been given in good faith and on the condition that the product is used under normal conditions and in accordance with the specified method of use. Any other use of the product, if any, together with other products or processes, takes place at the user's own risk.