



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ElimiNOX Eco / BEROL 6430

Version 1 Revision Date 17.05.2019 Print Date 21.10.2019 GB / EN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name : BEROL 6430

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

Use of the : Specific use(s): Surfactant

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : Nouryon Surface Chemistry AB

Stenunge Alle 3

SE 444 85 Stenungsund

Sweden

Telephone : +4630385000 Telefax : +4630384659

E-mail address : Regulatory.Affairs@nouryon.com

1.4 Emergency telephone number

Emergency telephone : 020 99 60 00 Kemiakuten, SE +31 57 06 79 211 24 hours

number emergency response number

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, 4, H302 Acute toxicity, 4, H332 Acute toxicity, 4, H312 Skin irritation, 2, H315

Serious eye damage, 1, H318

Long-term (chronic) aquatic hazard, 3, H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Pictogram





Signal word : Danger

Hazard statements : H302 + H312 + H332 Harmful if swallowed, in contact with

skin or if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting

effects.

Precautionary statements : Prevention:

P261 Avoid breathing mist, vapours or spray.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective

clothing/ eye protection/ face protection.

Response:

P302 + P352 + P312 IF ON SKIN: Wash with plenty of water.

Call a POISON CENTER/doctor if you

feel unwell.

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.

Hazardous components which must be listed on the label:

Glycol ethers

Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl) 68155-07-7

2.3 Other hazards

No further data available.

PBT and vPvB 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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Pure substance/mixture : Mixture

Hazardous substance

Chemical name	PBT vPvB OEL	CAS-No. EC-No. REACH No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
2-Butoxyethanol		111-76-2 203-905-0 01-2119475108-36	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 80 - < 90
Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)		68155-07-7 268-935-9	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411	>= 15 - < 20
2-Propylheptanol ethoxylate		160875-66-1	Eye Irrit. 2; H319	>= 1 - < 5
Diethanolamine		111-42-2 203-868-0 01-2119488930-28	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Repr. 2; H361fd STOT RE 2; H373	>= 0.1 - < 1

For the full text of the H-Statements mentioned in this Section, see Section 16.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Status : Not applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice : Immediate medical attention is required.

Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

If inhaled : If breathed in, move person into fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash the skin immediately with soap and water.

If skin irritation persists, call a physician.

In case of eye contact : Rinse with plenty of water.

Get medical attention immediately. Continue to rinse during

transport.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Harmful if swallowed, in contact with skin or if inhaled.

Causes skin irritation.

Causes serious eye damage.

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 : Alcohol-resistant foam

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting / Specific hazards

arising from the chemical

: Water spray may be ineffective unless used by experienced

firefighters.

Do not allow run-off from fire fighting to enter drains or water

courses.

Combustion products : Carbon oxides

Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment

for firefighters

Further information

: In the event of fire, wear self-contained breathing apparatus.

: 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Wear respiratory protection. Ensure adequate ventilation.

Emergency measures on

accidental release

Evacuate personnel to safe areas.

Only qualified personnel equipped with suitable protective

equipment may intervene.

Prevent unauthorised persons entering the zone.

6.2 Environmental precautions

Environmental precautions

: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up / Methods for containment

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13. For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.

Avoid formation of aerosol.

Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.

Smoking, eating and drinking should be prohibited in the

application area.

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

: Avoid formation of aerosol.

Keep away from sources of ignition - No smoking.

No sparking tools should be used.

Take measures to prevent the build up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Prevent unauthorized access.

No smoking.

Keep container tightly closed in a dry and well-ventilated

place.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Components	CAS-No.	Value		Control parameters	Update	Basis	Form of exposure		
Glycol ethers				20 ppm 98 mg/m3	2000-06-16	2000/39/EC			
	Further information			kin: Identifies the possibility of significant uptake through the skin idicative					
		STE	L	50 ppm 246 mg/m3	2000-06-16	2000/39/EC			
	Further information	n Indic TWA : Sk: 0 n whic		kin: Identifies the possibility of significant uptake through the skin andicative					
				25 ppm	2005-04-06	GB EH40			
	Further information			Sk: Can be absorbed through skin. The assigned substances are those for w hich there are concerns that dermal absorption will lead to systemic toxicity.					
		STE		50 ppm	2005-04-06	GB EH40			
	Further information	:	Sk: Can be absorbed through skin. The as w hich there are concerns that dermal abs toxicity.						

ACGIH: American Conference of Governmental Industrial Hygienists

AGW: Arbeitsplatzgrenzwert BEI: Biological Exposure Index

MAC: Maximum Allowable Concentration

NIOSH: National Institute for Occupational Safety and Health

OEL: Occupational exposure limit.

STEL: Short term exposure limit

TRGS: Technische Regel für Gefahrstoffe

TWA: Time Weighted Average

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Update
2-Butoxyethanol	111-76-2	butoxyacetic acid: 240 Millimoles per mole Creatinine (Urine)	After shift	2011-12-18

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

		<u> </u>	<i>'</i>	
Substance name	End Use	Exposure routes	Potential health effects	Value
Diethanolamine	Workers	Skin contact	Long-term systemic effects	0.13 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	0.5 mg/m3
	Workers	Inhalation	Long-term systemic effects	0.75 mg/m3
	Consumers	Skin contact	Long-term systemic	0.07 mg/kg

		effects	bw/day
Consumers	Ingestion	Long-term systemic effects	0.06 mg/kg bw/day
Consumers	Inhalation	Long-term systemic effects	0.125 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
Diethanolamine	Fresh w ater	0.021 mg/l
	Marine water	0.002 mg/l
	Intermittent use/release	0.095 mg/l
	Fresh w ater sediment	0.092 mg/kg dry w eight
	Marine sediment	0.0092 mg/kg dry w eight
	Sew age treatment plant	100 mg/l
	Soil	1.63 mg/kg dry w eight
	Secondary Poisoning	1.04 mg/kg food

8.2 Exposure controls

Engineering controls

Effective exhaust ventilation system

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Respiratory protection : In the case of vapour or aerosol formation use a respirator

with an approved filter.

Hand protection : Neoprene

Nitrile rubber

Eye protection : Tightly fitting safety goggles

Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

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Form : liquid

Colour : clear

light yellow

Odour : No information available.

Odour Threshold : No data available

Safety data

pH : No data available

Melting point : No data available

Boiling point : No data available

Flash point : 67 °C

Method: Pensky-Martens closed cup

Evaporation rate : No data available

Flammability (solid, gas) :

Flammability (liquids) : No data available

Lower explosion limit : Not applicable

Upper explosion limit : Not applicable

Vapour pressure : No data available

Relative vapour density : No data available

Density : 918.2 kg/m3 at 20 °C

Relative density : No data available

Water solubility : dispersible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity, dynamic : 9 mPa.s at 20 °C

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

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

Hazardous decomposition

products

: No hazardous decomposition products are known.

Thermal decomposition : No data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product information:

Acute toxicity : Harmful if swallowed, in contact with skin or if inhaled.

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin

sensitisation

: Respiratory sensitisation: Not classified based on available

information.

Skin sensitisation: Not classified based on available

information.

Germ cell mutagenicity : Not classified based on available information.

Carcinogenicity : Not classified based on available information.

Reproductive toxicity : Not classified based on available information.

STOT - single exposure : Not classified based on available information.

STOT - repeated exposure : Not classified based on available information.

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Not classified based on available information. Aspiration hazard

Further information Suspected of damaging fertility or the unborn child.

Test result

Acute oral toxicity : Acute toxicity estimate: 625 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 13.75 mg/l

> Exposure time: 4 h Test atmosphere: vapour Method: Calculation method

: Acute toxicity estimate: 1,375 mg/kg Acute dermal toxicity

Method: Calculation method

Toxicology data for the components:

2-Butoxyethanol

Acute toxicity:

: LD50: > 300 - 2,000 mg/kgAcute oral toxicity

Species: Rat

: LC50 (Rat): > 10 - 20 mg/l Acute inhalation toxicity

Exposure time: 4 h Test atmosphere: vapour Method: Calculation method

Information taken from reference works and the literature.

Acute dermal toxicity : LD50: > 1,000 - 2,000 mg/kg

Species: Rabbit

Method: Calculation method

Information taken from reference works and the literature.

Skin corrosion/irritation : Result: Irritating to skin.

Serious eye damage/eye

irritation

: Result: Irritating to eyes.

Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)

Acute toxicity:

: LD50: > 5,000 mg/kg Acute oral toxicity

Species: Rat

Method: OECD Test Guideline 401

Skin corrosion/irritation : Species: Rabbit

Result: Skin irritation

Serious eye damage/eye

: Species: Rabbit

irritation Result: Risk of serious damage to eyes.

2-Propylheptanol ethoxylate

Acute toxicity:

: LD50: > 2,000 mg/kgAcute oral toxicity

Species: Rat

Read-across (Analogy)

Skin corrosion/irritation : Result: No skin irritation

Serious eye damage/eye

irritation

: Result: Mild eye irritation

Respiratory or skin

sensitisation

: Result: Does not cause skin sensitisation.

Repeated dose toxicity : 250 mg/kg

Teratogenicity : > 250 mg/kg

Diethanolamine

Acute toxicity:

Acute oral toxicity : LD50: 1,600 mg/kg

Species: Rat

Method: OECD Test Guideline 401

Acute inhalation toxicity : Not classified due to data which are conclusive although

insufficient for classification.

Acute dermal toxicity : No data available

Skin corrosion/irritation : Species: Rabbit

Result: Irritating to skin.

Method: OECD Test Guideline 404

Serious eye damage/eye

irritation

: Species: Rabbit

Result: Risk of serious damage to eyes. Method: OECD Test Guideline 405

Respiratory or skin

sensitisation

Maximisation Test

Species: Guinea pig

Result: Does not cause skin sensitisation. Method: OECD Test Guideline 406

Germ cell mutagenicity

Genotoxicity in vitro : Ames test

Result: negative

Genotoxicity in vivo : Chromosome aberration test in vivo

Species: Mouse Result: negative

Carcinogenicity : Result: Not classified due to data which are conclusive

although insufficient for classification.

CMR effectsReproductive

toxicity

: Some evidence of adverse effects on development, based on animal experiments., Some evidence of adverse effects on

sexual function and fertility, based on animal experiments.

STOT - single exposure : Based on available data, the classification criteria are not met.

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Exposure routes: Oral STOT - repeated exposure

Target Organs: Blood, Liver, Kidney, Nervous system

May cause damage to organs through prolonged or repeated

exposure.

Not classified due to data which are conclusive although Aspiration hazard

insufficient for classification.

SECTION 12: ECOLOGICAL INFORMATION

Product information: Ecotoxicology Assessment

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.

12.1 Toxicity

Components:

Ecotoxicology Assessment

Diethanolamine

Short-term (acute) aquatic

: Toxic to aquatic life.

hazard Test result 2-Butoxyethanol

Toxicity to fish : LC50: 1,490 mg/l

Exposure time: 96 h

Species: Lepomis macrochirus (Bluegill sunfish)

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50: > 1,000 mg/l Exposure time: 48 h

> Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)

Toxicity to fish : LC50: 4.9 mg/l

Exposure time: 96 h

Species: Danio rerio (zebra fish)

LC50: 2.4 mg/l Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other

aquatic invertebrates

: EC50: 3.3 mg/l Exposure time: 24 h

Species: Daphnia magna (Water flea)

Test Type: static test

: NOEC: 2 mg/l Toxicity to algae

Exposure time: 72 h

Species: Scenedesmus subspicatus (algae)

2-Propylheptanol ethoxylate

Toxicity to fish : LC50: > 1 - 10 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Read-across (Analogy)

Toxicity to daphnia and other

aquatic invertebrates

: EC50: > 1 - 10 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

Read-across (Analogy)

Toxicity to algae : EC50: > 10 - 100 mg/l

Exposure time: 72 h

Species: Scenedesmus subspicatus (algae)

Read-across (Analogy)

Diethanolamine

Toxicity to fish : LC50: > 100 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Test Type: static test

Information taken from reference works and the literature.

Toxicity to daphnia and other

aquatic invertebrates

: EC50: > 10 - 100 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

Information taken from reference works and the literature.

Toxicity to algae : EC50: > 1 - 10 mg/l

Exposure time: 96 h

Species: Pseudokirchneriella subcapitata (green algae)

Toxicity to daphnia and other

aquatic invertebrates

: NOEC: 1.05 mg/l Exposure time: 21 d

(Chronic toxicity) Species: Daphnia magna (Water flea)

Test Type: semi-static test

12.2 Persistence and degradability

Product information : No information available.

Components: 2-Butoxyethanol

Biodegradability : Result: Readily biodegradable.

2-Propylheptanol ethoxylate

Biodegradability : Result: Readily biodegradable.

Read-across (Analogy)

Diethanolamine

Biodegradability : Result: Readily biodegradable.

12.3 Bioaccumulative potential

Product information : No information available.

Components:

2-Butoxyethanol

Bioaccumulation : Bioaccumulation is unlikely.

2-Propylheptanol ethoxylate

Bioaccumulation : No data available

Diethanolamine

Bioaccumulation : Not expected considering the low log Pow value.

12.4 Mobility in soil

Product information : No information available.

Components: 2-Butoxyethanol

Mobility : No data available

2-Propylheptanol ethoxylate

Mobility : No data available

Diethanolamine

Mobility : Adsorption to the solid soil particles is not expected.

Transport to air is not expected.

12.5 Results of PBT and vPvB assessment

Product information:

PBT and vPvB 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.

Components: 2-Butoxyethanol

PBT and vPvB assessment : This substance is not considered to be a PBT (Persistent,

Bioaccumulation, Toxic)

This substance is not considered to be vPvB (very Persistent

nor very Bioaccumulating)

2-Propylheptanol ethoxylate

PBT and vPvB assessment : This substance is not considered to be persistent,

bioaccumulating and toxic (PBT).

This substance is not considered to be very persistent and

very bioaccumulating (vPvB).

Diethanolamine

PBT and vPvB assessment : This substance is not considered to be a PBT (Persistent,

Bioaccumulation, Toxic)

This substance is not considered to be vPvB (very Persistent

nor very Bioaccumulating)

12.6 Other adverse effects

Product information : No information available.

Components: 2-Butoxyethanol

Biochemical Oxygen : No data available

Demand (BOD)

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2-Propylheptanol ethoxylate

Biochemical Oxygen Demand (BOD)

: No data available

Diethanolamine

Biochemical Oxygen Demand (BOD)

: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Hazardous waste

Dispose of contents/container in accordance with local

regulation.

Contaminated packaging Empty remaining contents.

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

Not regulated as a dangerous good

14.2 Proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: REGULATORY INFORMATION

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

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

Not applicable

Notification status

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

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AICS : YES. On the inventory, or in compliance with the inventory NZIoC NO. Not in compliance with the inventory YES. On the inventory, or in compliance with the inventory **ENCS** YES. On the inventory, or in compliance with the inventory ISHL YES. On the inventory, or in compliance with the inventory KECI

PICCS NO. Not in compliance with the inventory

IECSC YES. On the inventory, or in compliance with the inventory **TCSI** YES. On the inventory, or in compliance with the inventory

TSCA YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.

For explanation of abbreviation see section 16.

Further information

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

15.2 Chemical safety assessment

2-Butoxyethanol : No information available.

2-Propylheptanol ethoxylate : A Chemical Safety Assessment is not required for this

substance.

Diethanolamine : A Chemical Safety Assessment has been carried out for this

substance.

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H302 : Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H318 Causes serious eve damage.

Causes serious eye irritation. H319

H332 Harmful if inhaled.

H361fd Suspected of damaging fertility. Suspected of damaging the

unborn child.

H373 : May cause damage to organs through prolonged or repeated

exposure if swallowed.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

Classification procedure:

Acute toxicity, 4, H302, Calculation method Acute toxicity, 4, H332, Calculation method Acute toxicity, 4, H312, Calculation method Skin irritation, 2, H315, Calculation method

Serious eye damage, 1, H318, Calculation method

Long-term (chronic) aquatic hazard, 3, H412, Calculation method

Full text of other abbreviations

2000/39/EC Europe. Commission Directive 2000/39/EC establishing a first

list of indicative occupational exposure limit values

GB EH40 UK. EH40 WEL - Workplace Exposure Limits

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2000/39/EC / TWA : Limit Value - eight hours 2000/39/EC / STEL : Short term exposure limit

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level: NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.