

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** SONAX AntiFrost&Klarsicht Konzentrat**Article number:**

03327050-280, 03328050-280, 03329050-280

03327050-280, 03328050-280, 03329050-280

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

Car care product

Anti-Freeze and de-icing products

Detergents

Consumer uses: Private households / general public / consumers

Professional uses

Uses advised against None**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

SONAX GmbH

Münchener Straße 75

D-86633 Neuburg (Donau)

Tel.: ++49 (0)8431/53-0

Further information obtainable from:

Product safety

E-mail: erp@sonax.de

Phone: + +49 (0) 8431 53 217

United Kingdom:

Anglo American Oil Company Ltd

58 Holton Road, Holton Heath Trading Park, Poole, Dorset, BH16 6LT

Telephone: (+44) 01929 551557

Email: info@aaoil.co.uk**1.4 Emergency telephone number:****European Union:** +49 (0) 89 19240 (Poison Centre Munich)**United Kingdom:** 0344 892 0111 (UK NPIS)

Members of Public in England, Scotland and Wales can contact NHS 111/NHS 24 by dialling 111

In Northern Ireland, contact your local GP

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 3 H226 Flammable liquid and vapour.

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

GHS02

Signal word Warning**Hazard statements**

H226 Flammable liquid and vapour.

Precautionary statements

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

-GB-

Safety data sheet according to UK REACH

Printing date 17.09.2024

Version: 6.00 (replaces version 5.00)

Revision: 04.05.2023

Trade name: SONAX AntiFrost&Klarsicht Konzentrat

(Contd. of page 1)

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:**

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as PBT

vPvB:

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as vPvB.

Determination of endocrine-disrupting properties

The substance/this mixture contains components that exhibit or are suspected of exhibiting endocrine disrupting properties according to UK REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

CAS: 78-93-3 | butanone

List II

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Aqueous formulation of alcohol, glycol and tensides.

Dangerous components:

CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43-xxxx	ethanol Flam. Liq. 2, H225; Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	25-<50%
CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28-xxxx	ethanediol STOT RE 2, H373; Acute Tox. 4, H302	5-<10%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43-xxxx	butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	<1%

Regulation (EC) No 648/2004 on detergents / Labelling for contents

anionic surfactants	<5%
perfumes	

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: Remove soiled clothing

After inhalation: Supply fresh air.

After skin contact: Wash the areas of skin affected with water and a mild detergent.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment in accordance with the doctor's assessment of the patient's condition. Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media**Suitable extinguishing agents:**

Water spray

Fire-extinguishing powder

Alcohol resistant foam

Carbon dioxide

(Contd. on page 3)

**Safety data sheet
according to UK REACH**

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Trade name: SONAX AntiFrost&Klarsicht Konzentrat

(Contd. of page 2)

For safety reasons unsuitable extinguishing agents: Water with full jet**5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO₂)**5.3 Advice for firefighters****Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Do not enter the hazardous area without a self-contained breathing apparatus.

See Section 8 for information on personal protection equipment.

Additional information

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**For non-emergency personnel**

Keep away from ignition sources.

The usual precautionary measures are to be adhered to when handling chemicals.

For emergency responders Wear protective equipment. Keep unprotected persons away.**6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

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**

Ensure good ventilation/exhaustion at the workplace.

Buildup of explosive mixtures possible without sufficient ventilation.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Highly volatile, flammable constituents are released during processing.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.**Information about storage in one common storage facility:**

Store away from foodstuffs.

Observe local/state/federal regulations.

Further information about storage conditions:

Keep container tightly sealed.

Store receptacle in a well ventilated area.

Protect from heat and direct sunlight.

Recommended storage temperature: 20 °C.

7.3 Specific end use(s) No further relevant information available.

GB

(Contd. on page 4)

Safety data sheet according to UK REACH

Printing date 17.09.2024

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Revision: 04.05.2023

Trade name: SONAX AntiFrost&Klarsicht Konzentrat

(Contd. of page 3)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 64-17-5 ethanol

WEL (Great Britain)	Long-term value: 1920 mg/m ³ , 1000 ppm
OEL (Ireland)	Short-term value: 1000 ppm

CAS: 107-21-1 ethanediol

WEL (Great Britain)	Short-term value: 104** mg/m ³ , 40** ppm Long-term value: 10* 52** mg/m ³ , 20** ppm Sk *particulate **vapour
IOELV (EU)	Short-term value: 104 mg/m ³ , 40 ppm Long-term value: 52 mg/m ³ , 20 ppm Skin
OEL (Ireland)	Short-term value: 40 mg/m ³ , 104 ppm Long-term value: 52 mg/m ³ , 20 ppm Sk, IOELV

CAS: 78-93-3 butanone

WEL (Great Britain)	Short-term value: 899 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm Sk, BMGV
IOELV (EU)	Short-term value: 900 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm
OEL (Ireland)	Short-term value: 900 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm Sk, IOELV

Regulatory information

WEL (Great Britain): EH40/2020

OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work

IOELV (EU): (EU) 2019/1831

DNELs

CAS: 64-17-5 ethanol

Oral	DNEL	87 mg/kg (consumer) (long-term exposure - systemic effects)
Dermal	DNEL	206 mg/kg bw/day (consumer) (long-term exposure - systemic effects) 343 mg/kg bw/day (worker) (lon-term exposure - systemic effects)
Inhalative	DNEL	950 mg/m ³ (consumer) (acute short-tem exposure - local effects) 1,900 mg/m ³ (worker) (acute short-tem exposure - local effects)
	DNEL	114 mg/m ³ (consumer) (long-term exposure - systemic effects) 950 mg/m ³ (worker) (long-term exposure - systemic effects)

CAS: 107-21-1 ethanediol

Dermal	DNEL	53 mg/kg bw/day (consumer) (long term (chronic) / systemic) 106 mg/kg bw/day (worker) (long term (chronic) / systemic)
Inhalative	DNEL	7 mg/m ³ (consumer) (long term (chronic) / local) 35 mg/m ³ (worker) (long term (chronic) / local)

CAS: 78-93-3 butanone

Oral	DNEL	31 mg/kg bw/day (consumer) (longterm systematic effects) 1,161 mg/kg bw/day (worker) (longterm systematic effects)
Dermal	DNEL	412 mg/bw/day (consumer)
Inhalative	DNEL	106 mg/m ³ (consumer) (longterm systematic effects) 600 mg/m ³ (worker) (longterm systematic effects)

PNECs

CAS: 64-17-5 ethanol

PNEC	580 mg/l (sewage plant)
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(Contd. on page 5)

Safety data sheet according to UK REACH

Printing date 17.09.2024

Version: 6.00 (replaces version 5.00)

Revision: 04.05.2023

Trade name: SONAX AntiFrost&Klarsicht Konzentrat

(Contd. of page 4)

PNEC	0.96 mg/l (water (fresh water)) 0.79 mg/l (water (sea water)) 3.6 mg/kg (sediment (fresh water)) 0.63 mg/kg (soil)
CAS: 107-21-1 ethanediol	
PNEC	199.5 mg/l (STP) 10 mg/l (water (intermittent release)) 10 mg/l (water (fresh water)) 1 mg/l (water (sea water))
PNEC	1.53 mg/kg (gro) 37 mg/kg (sediment (fresh water)) (dry weight) 3.7 mg/kg (sediment (sea water)) (dry weight)
CAS: 78-93-3 butanone	
PNEC	55.8 mg/l (sporadic release) 709 mg/l (STP) 55.8 mg/l (water (fresh water)) 55.8 mg/l (water (sea water))
PNEC	284.7 mg/kg (sediment) 22.5 mg/kg (soil)
Ingredients with biological limit values:	
CAS: 78-93-3 butanone	
BMGV (Great Britain)	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one

Regulatory information BMGV (Great Britain): EH40/2011

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

8.2 Exposure controls

Suitable technical control devices

Ensure good ventilation. This can be achieved by localised extraction or general ventilation. If this is not sufficient to keep the concentration below the occupational exposure limit, suitable breathing protection is to be worn.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Respiratory protection:

Not required in normal cases

Ensure good ventilation/exhaustion at the workplace.

Hand protection Not required in normal cases.

Eye/face protection Not required in normal cases

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state

Fluid

Colour:

Blue

Odour:

Citrus

Melting point/freezing point:

Undetermined.

Boiling point or initial boiling point and boiling range

Undetermined.

Flammability

Flammable.

(Contd. on page 6)

Safety data sheet according to UK REACH

Printing date 17.09.2024

Version: 6.00 (replaces version 5.00)

Revision: 04.05.2023

Trade name: SONAX AntiFrost&Klarsicht Konzentrat

(Contd. of page 5)

Lower and upper explosion limit

Lower:	3.5 Vol % (CAS: 64-17-5 ethanol)
Upper:	15 Vol % (CAS: 64-17-5 ethanol)
Flash point:	23 °C (EN ISO 1523)
Decomposition temperature:	Not determined.
pH at 20 °C	6-6.4
Viscosity:	
Kinematic viscosity at 40 °C	<20.5 mm ² /s
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	59 hPa (CAS: 64-17-5 ethanol)
Density and/or relative density	
Density at 20 °C:	0.92-0.93 g/cm ³
Vapour density	Not determined.

9.2 Other information

Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Not determined.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Change in condition	
Evaporation rate	Not determined.

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No dangerous reactions known.

10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions Develops readily flammable gases/fumes.

10.4 Conditions to avoid

Keep ignition sources away - Do not smoke.

See Section 7 for information on safe handling.

10.5 Incompatible materials: strong oxidizing agents

10.6 Hazardous decomposition products: No dangerous decomposition products known.

GB

(Contd. on page 7)

Safety data sheet according to UK REACH

Printing date 17.09.2024

Version: 6.00 (replaces version 5.00)

Revision: 04.05.2023

Trade name: SONAX AntiFrost&Klarsicht Konzentrat

(Contd. of page 6)

SECTION 11: Toxicological information

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

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

LD/LC50 values relevant for classification:

CAS: 64-17-5 ethanol

Oral	LD50	10,470 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50 / 4h	>20 mg/l (mouse) 38 mg/l (rat)

CAS: 107-21-1 ethanediol

Oral	LD50	7,712 mg/kg (rat)
Dermal	LD50	>3,500 mg/kg (mouse)
Inhalative	LC50 / 6 h	>2.5 mg/l (rat)

CAS: 78-93-3 butanone

Oral	LD50	>2,193 mg/kg (rat) (OECD 423)
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4d	34 mg/l (Ratte)

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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.

Additional toxicological information:

Repeated dose toxicity

CAS: 64-17-5 ethanol

Oral	NOAEL	1,760 mg/kg (rat) (OECD 408, 90d, target organ: liver)
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CAS: 78-93-3 butanone

Inhalative	NOAEC	0.5041 mg/m ³ (rat) (OECD-Prüfrichtlinie 413)
	LOAEC 18d; 7h/d	3,000 ppm (rat) (OECD 414)
	NOAEC 18d, 7h/day	1.002 ppm (rat) (OECD 414)

11.2 Information on other hazards

Endocrine disrupting properties

The product contains substances suspected of causing endocrine disruptions with health effects.

CAS: 78-93-3 butanone

List II

SECTION 12: Ecological information

12.1 Toxicity There are no ecotoxicological data available on this mixture.

Aquatic toxicity:

CAS: 64-17-5 ethanol

	LC50 / 48h	8,140 mg/l (Leuciscus idus)
	EC50 / 48h	>10,000 mg/l (Daphnia magna)
	EC50 / 72h	275 mg/l (Chlorella vulgaris)

(Contd. on page 8)

Safety data sheet according to UK REACH

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Revision: 04.05.2023

Trade name: SONAX AntiFrost&Klarsicht Konzentrat

(Contd. of page 7)

CAS: 107-21-1 ethanediol

LC50 / 96h	72,860 mg/l (<i>Pimephales promelas</i>)
EC20 / 0.5 h	>1,995 mg/l (activated sludge)
EC50 / 48h	>100 mg/l (<i>Daphnia magna</i>)
EC50 / 96 h	6,500-13,000 mg/l (<i>Pseudokirchneriella subcapitata</i>)
NOEC / 7 d	8,590 mg/l (<i>Ceriodaphnia Dubia</i>) (EPA 600/4-89/001) 15,380 mg/l (<i>Pimephales promelas</i>) (EPA 600/4-89/001)

CAS: 78-93-3 butanone

Oral	EC0/16h	1,150 mg/l (<i>Pseudomonas putida</i>) (statistischer Test; DIN 38412)
	LC50 / 96h	2,993 mg/l (<i>Pimephales promelas</i>) (statistischer Test, OECD-Prüfrichtlinie 203)
	EC50 / 48h	308 mg/l (<i>Daphnia magna</i>) (Statistischer Test, OECD-Prüfrichtlinie 202)
	EC50 / 72h	1,972 mg/l (<i>Grünalge Pseudokirchneriella subcapitata</i>) (statistischer Test, OECD-Prüfrichtlinie 201)

12.2 Persistence and degradability

The surface-active substances contained in the product meet the requirement of the EU Detergent Regulation (EC/648/2004) for ultimate biodegradability for surfactants in detergents.

CAS: 78-93-3 butanone

Biodegradation 98 % (OECD 301 D)

12.3 Bioaccumulative potential

CAS: 107-21-1 ethanediol

log POW -1.36

CAS: 78-93-3 butanone

log Kow 0.3

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT:

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as PBT

vPvB:

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as vPvB

12.6 Endocrine disrupting properties

According to the current state of scientific knowledge, there is no data for the product regarding endocrine disrupting properties with effects on the environment.

12.7 Other adverse effects

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation Waste must be disposed of while observing the local, official regulations.

European waste catalogue

20 01 29* detergents containing hazardous substances

HP3 Flammable

HP4 Irritant - skin irritation and eye damage

Uncleaned packaging:

15 01 10*: packaging containing residues of or contaminated by dangerous substances

Recommendation:

Packaging may be reused or recycled after cleaning.

15 01 02: plastic packaging

(Contd. on page 9)

Safety data sheet according to UK REACH

Printing date 17.09.2024

Version: 6.00 (replaces version 5.00)

Revision: 04.05.2023

Trade name: SONAX AntiFrost&Klarsicht Konzentrat

Recommended cleansing agents: Water

(Contd. of page 8)

SECTION 14: Transport information

14.1 UN number or ID number
ADR/RID/ADN, IMDG, IATA

UN1170

14.2 UN proper shipping name
ADR/RID/ADN
IMDG, IATA

1170 ETHANOL SOLUTION
ETHANOL SOLUTION

14.3 Transport hazard class(es)

ADR/RID/ADN



Class 3 (F1) Flammable liquids.

Label

3

IMDG, IATA



Class 3 Flammable liquids.

Label

3

14.4 Packing group

ADR/RID/ADN, IMDG, IATA III

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user Warning: Flammable liquids.

Transport/Additional information:

ADR/RID/ADN

Limited quantities (LQ) 5L

Transport category 3

Tunnel restriction code D/E

UN "Model Regulation": UN 1170 ETHANOL SOLUTION, 3, III

SECTION 15: Regulatory information

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

European Directives:

Directive 2010/75/EU (VOC) 60.29 %

Catégorie SEVESO (DIRECTIVE 2012/18/EU) P5c FLAMMABLE LIQUIDS

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

National regulations:

Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

(Contd. on page 10)

Safety data sheet according to UK REACH

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Version: 6.00 (replaces version 5.00)

Revision: 04.05.2023

Trade name: SONAX AntiFrost&Klarsicht Konzentrat

(Contd. of page 9)

Employment restrictions concerning pregnant and lactating women must be observed.

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

SECTION 16: Other information

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.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

EUH066 Repeated exposure may cause skin dryness or cracking.

Classification according to Regulation (EC) No 1272/2008

Flammable liquids | On basis of test data

Date of previous version: 15.06.2022

Version number of previous version: 5.00

Abbreviations and acronyms:

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = Lethal Concentration

EC50 = half maximal effective concentration

log POW = Octanol / water partition coefficient

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ATE: acute toxicity estimate

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

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

IOELV = indicative occupational exposure limit values

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

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

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2