

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 29.10.2020

Version: 6.02

Revision: 15.04.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** SONAX MoS 2 Oil**Article number:**

03392000, 03394000

UFI: 8020-T0NG-N00M-17YR**1.2 Relevant identified uses of the substance or mixture and uses advised against****Sector of Use**

SU21 Consumer uses: Private households / general public / consumers

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

Product category PC24 Lubricants, greases, release products**Application of the substance / the mixture**

Penetrating oil

Anticorrosion additive

Lubricant

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

1.4 Emergency telephone number: Emergency Phone Munich Tel.: +49 (0)89 19240**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

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

Hazard pictograms

GHS02

Signal word Danger**Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H412 Harmful to aquatic life with long lasting effects.

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.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

P271 Use only outdoors or in a well-ventilated area.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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

Additional information:

Buildup of explosive mixtures possible without sufficient ventilation.

(Contd. on page 2)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.10.2020

Version: 6.02

Revision: 15.04.2020

Trade name: SONAX MoS 2 Oil

(Contd. of page 1)

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures**Description:** Formulation consisting of pressurised gas and mineral oil with additives in petroleum distillate**Dangerous components:**

CAS: 8042-47-5 EINECS: 232-455-8 Reg.nr.: 01-2119487078-27-xxxx	White mineral oil, petroleum ⚠ Asp. Tox. 1, H304	25-<50%
EC No 926-141-6 Reg.nr.: 01-2119456620-43-xxxx	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics Alternative CAS number: 64742-47-8 ⚠ Asp. Tox. 1, H304	25-<50%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-xxxx	butane ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	5-<10%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-xxxx	propane ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	5-<10%
CAS: 1474044-79-5 EC No 939-717-7 Reg.nr.: 01-2119980985-16-xxxx	calcium bis(di C8-C10, branched, C9 rich, alkyl)naphthalenesulphonate Alternative CAS number: 57855-77-3 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-<3%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	1-<3%
CAS: 110-25-8 EINECS: 203-749-3 Reg.nr.: 01-2119488991-20-xxxx	(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H332; ⚠ Skin Irrit. 2, H315; ⚠ Aquatic Chronic 3, H412	<1%
CAS: 128-37-0 EINECS: 204-881-4 Reg.nr.: 01-2119565113-46-xxxx	2,6-di-tert-butyl-p-cresol ⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 1, H410	<1%

Regulation (EC) No 648/2004 on detergents / Labelling for contentsaliphatic hydrocarbons ≥30%**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:**

Take affected persons out into the fresh air.

Remove soiled clothing

After inhalation:

Supply fresh air.

In the event of irritation of the respiratory tract, dizziness, nausea or unconsciousness, call medical assistance immediately.

After skin contact:

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

If symptoms persist consult doctor.

After eye contact:

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

After swallowing: Do not induce vomiting; call for medical help immediately.**4.2 Most important symptoms and effects, both acute and delayed**

Breathing difficulty

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 29.10.2020

Version: 6.02

Revision: 15.04.2020

Trade name: SONAX MoS 2 Oil

(Contd. of page 2)

Headache
Drowsiness
Nausea

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:**

Foam
Carbon dioxide
Fire-extinguishing powder
Water haze

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

In case of fire, the following can be released:

Carbon monoxide (CO)
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
Phosphorus oxides (e.g. P₂O₅)

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

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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

Keep away from ignition sources.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

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

6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

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

Dispose contaminated material as waste according to item 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.

When using product on electrical parts disconnect them from power supply first. Before re-assembly, let dry for 2 minutes.

(Contd. on page 4)

GB

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 29.10.2020

Version: 6.02

Revision: 15.04.2020

Trade name: SONAX MoS 2 Oil

(Contd. of page 3)

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

Highly volatile, flammable constituents are released during processing.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Provide solvent resistant, sealed floor.

Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:

Store receptacle in a well ventilated area.

Protect from heat and direct sunlight.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Recommended storage temperature: 20 °C.

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters**Ingredients with limit values that require monitoring at the workplace:****Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

RCP-TWA (EU)	Long-term value: 1200 mg/m ³ , 165 ppm Vapour / Total Hydrocarbons
--------------	--

CAS: 106-97-8 butane

WEL (Great Britain)	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
---------------------	---

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

WEL (Great Britain)	Long-term value: 10 mg/m ³
---------------------	---------------------------------------

Regulatory information WEL (Great Britain): EH40/2018

DNELs**CAS: 8042-47-5 White mineral oil, petroleum**

Oral	DNEL	40 mg/kg (consumer) (long-term exposure - systemic effects)
Dermal	DNEL	92 mg/kg bw/day (consumer) (long-term exposure - systemic effects)
		220 mg/kg bw/day (worker) (long-term exposure - systemic effects)
Inhalative	DNEL	35 mg/m ³ (consumer) (long-term exposure - systemic effects)
		160 mg/m ³ (worker) (long-term exposure - systemic effects)

CAS: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)

Dermal	DNEL	10 mg/kg (worker) (longterm systematic effects)
Inhalative	DNEL	5 mg/m ³ (worker) (longterm systematic effects)

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

Dermal	DNEL	5 mg/kg (VL)
		8.3 mg/kg (worker)
Inhalative	DNEL	1.74 mg/m ³ (VL)
		5.8 mg/m ³ (worker)

(Contd. on page 5)

GB

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 29.10.2020

Version: 6.02

Revision: 15.04.2020

Trade name: SONAX MoS 2 Oil

(Contd. of page 4)

PNECs

CAS: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)

Oral	PNEC	22.2 mg/kg food (human)
	PNEC	10 mg/l (KS) 0.004 mg/l (water (fresh water)) 0.0004 mg/l (water (sea water))
	PNEC	69 mg/kg (sediment (fresh water)) 6.9 mg/kg (sediment (sea water)) 13.9 mg/kg (soil)

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

Oral	PNEC	16.7 mg/kg food (human)
	PNEC	100 mg/l (sewage plant) 0.004 mg/l (sporadic release) 0.004 mg/l (freshwater (Süßwasser)) 0.0004 mg/l (sediment (sea water))
	PNEC	1.29 mg/kg (sediment (fresh water)) 1.04 mg/kg (soil)

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.

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Wash hands before breaks and at the end of work.
Keep away from foodstuffs, beverages and feed.

Respiratory protection:

Not required in normal cases

If the occupational exposure limit is exceeded:

The following breathing protection is recommended:

Respiratory filter for organic gases and vapours (Type A)

Identification colour: Brown

[DIN EN 14387]

Protection of hands: Protective gloves

Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.4 mm

Penetration time of glove material Value for the permeation: Level 6 (≥ 480 min)

Eye protection: Not required in normal cases

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Aerosol
Colour:	brown-opaque
Odour:	Solvent-like
Odour threshold:	Not determined.

pH-value: Not applicable.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.10.2020

Version: 6.02

Revision: 15.04.2020

Trade name: SONAX MoS 2 Oil

(Contd. of page 5)

Change in condition

Melting point/freezing point: Undetermined.
Initial boiling point and boiling range: 180-270 °C (Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics)

Flash point: 86 °C (DIN 51758)
 (Active ingredient data)

Flammability (solid, gas): Not applicable.

Decomposition temperature: Not determined.

Auto-ignition temperature: Not determined.

Explosive properties: In use, may form flammable/explosive vapour-air mixture.

Explosion limits:

Lower: 0.6 Vol % (Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics)
 1,5 Vol.% (Propellant data)
Upper: 7 Vol % (Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics)
 10,9 Vol.% (Propellant data)

Vapour pressure: Not determined.

Density at 20 °C: 0.83 - 0.85 g/cm³
 (Active ingredient data)

Relative density Not determined.

Vapour density Not determined.

Evaporation rate Not determined.

Solubility in / Miscibility with water: Not miscible or difficult to mix.

Partition coefficient: n-octanol/water: Not determined.

Viscosity:

Flow time at 23 °C 40 - 60 s (DIN EN ISO 2431/3mm)

Kinematic at 40 °C: 7 mm²/s (DIN 51562)

9.2 Other information No further relevant information available.

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

An increase in pressure may lead to bursting.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects There are no toxicological findings on this mixture.

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

LD/LC50 values relevant for classification:

CAS: 8042-47-5 White mineral oil, petroleum

Oral	LD50	>5,000 mg/kg (rat)
------	------	--------------------

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 29.10.2020

Version: 6.02

Revision: 15.04.2020

Trade name: SONAX MoS 2 Oil

(Contd. of page 6)

Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4d	>5,000 mg/l (rat)
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics		
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/8h	>5,000 mg/m ³ (rat) (OECD 403)
CAS: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)		
Oral	LD50	>2,500 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
CAS: 110-25-8 (Z)-N-methyl-N-(1-oxo-9-octadeceny)glycine		
Oral	LD50	5,000 mg/kg (rat)
Inhalative	LC50/4d	1.37 mg/l (rat)
CAS: 128-37-0 2,6-di-tert-butyl-p-cresol		
Oral	LD50	>5,000 mg/kg (rat) (OECD-Prüfrichtlinie 401)
Dermal	LD50	>5,000 mg/kg (rat) (OECD-Prüfrichtlinie 402)
Primary irritant effect:		
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.		
Repeated dose toxicity		
CAS: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)		
Oral	NOAEL 90 d	100 mg/kg (rat) (OECD 408, 90d, target organ: liver)
CAS: 128-37-0 2,6-di-tert-butyl-p-cresol		
Oral	NOAEL	25 mg/kg (Ratte)

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

None of the ingredients are known to have effects which are carcinogenic, mutagenic or harmful to 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**

Product is considered to be harmful to aquatic organisms. May have long-term harmful effects in aquatic environments.

Aquatic toxicity:**CAS: 8042-47-5 White mineral oil, petroleum**

	LC50 / 96h	>100 mg/l (fish)
	EC50 / 48h	>100 mg/l (daphnia)
	NOEC/NOEL	≥100 mg/l (fish) (96h)
		≥100 mg/l (algae) (72h)
		≥100 mg/l (daphnia) (48h)
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics		
	LLO 96 h	1,000 mg/l (Oncorhynchus mykiss)
	ELO 48 h	1,000 mg/l (Daphnia magna)
	ELO 72 h	1,000 mg/l (Pseudokirchneriella subcapitata)

(Contd. on page 8)

-GB

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 29.10.2020

Version: 6.02

Revision: 15.04.2020

Trade name: SONAX MoS 2 Oil

(Contd. of page 7)

CAS: 106-97-8 butane

LC50 / 96 h	27.98 mg/l (fish)
EC50 / 4 d	7.71 mg/l (algae)

CAS: 74-98-6 propane

LC50 / 96 h	27.98 mg/l (fish)
EC50 / 96 h	7.71 mg/l (algae)

CAS: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)

Inhalative	LC50/1	>9 mg/L (rat)
	LC50 / 96 h	>0.28 mg/l (fish)
	NOEL 21 d	2.2-10 mg/l (daphnia)
	EC50	>0.27 mg/l (daphnia)
	EC50 / 48h	>0.27 mg/l (daphnia)
	IC50 / 48h	>0.27 mg/l (daphnia)
	NOEC / 72 h	>0.27 mg/l (algae)

CAS: 75-28-5 isobutane

LC50 / 96 h	27.98 mg/l (fish)
EC50 / 4 d	7.71 mg/l (algae)

CAS: 110-25-8 (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine

LC50 / 96h	3.2-4.6 mg/l (fish)
EC0/ 72 h	>20 mg/l (algae)
EC20 / 0.5 h	50 mg/l (activated sludge)
EC50 / 48h	0.53 mg/l (Daphnia magna)
EC50 / 72h	5.1 mg/l (algae)

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

LC50 / 96h	>0.57 mg/l (Danio rerio)
EC50 / 48h	>0.17 mg/l (Daphnia magna)
IC50 / 72h	>0.42 mg/l (Desmodesmus subspicatus)
NOEC/NOEL	0.39 mg/l (Daphnia magna)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential
CAS: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)

BCF	3.16
log POW	>6.6 log POW

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

log POW	5.1 log POW
---------	-------------

12.4 Mobility in soil No further relevant information available.

Additional ecological information:
General notes:

The product may not be released into the environment without control.

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

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste classified as hazardous according to Annex III to Directive 2008/98/EC.

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

(Contd. on page 9)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 29.10.2020

Version: 6.02

Revision: 15.04.2020

Trade name: SONAX MoS 2 Oil

(Contd. of page 8)

European waste catalogue

Disposal / product + Disposal / contaminated packaging

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

SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA

UN1950

14.2 UN proper shipping name

ADR

1950 AEROSOLS

IMDG

AEROSOLS

IATA

AEROSOLS, flammable

14.3 Transport hazard class(es)

ADR



Class

2 5F Gases.

Label

2.1

IMDG, IATA



Class

2.1

Label

2.1

14.4 Packing group

ADR, IMDG, IATA

Void

14.5 Environmental hazards:

Marine pollutant:

No

14.6 Special precautions for user

see Sections 6-8

Warning: Gases.

14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ)

1L

Transport category

2

Tunnel restriction code

D

UN "Model Regulation":

UN1950, AEROSOLS, 2.1

SECTION 15: Regulatory information

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

European Directives:

EC/1907/2006 (REACH)

EC/1272/2008 (CLP)

EC/648/2004

(Contd. on page 10)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 29.10.2020

Version: 6.02

Revision: 15.04.2020

Trade name: SONAX MoS 2 Oil

(Contd. of page 9)

National regulations:**Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

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

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

Aerosols

On basis of test data

Hazardous to the aquatic environment - long-term
(chronic) aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Abbreviations and acronyms:

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

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 européen sur le transport 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 (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IOELV = indicative occupational exposure limit values

Flam. Gas 1: Flammable gases – Category 1

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas

Acute Tox. 4: Acute toxicity - inhalation – Category 4

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

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

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

Asp. Tox. 1: Aspiration hazard – 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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Version history and indication of changes: Replaces version 6.01.*** Data compared to the previous version altered.**