

**Safety data sheet
according to UK REACH**

Printing date 17.09.2024

Version: 9.01 (replaces version 9.00)

Revision: 04.05.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** SONAX Diesel System Cleaner**Article number:**

05181000

UFI: Y9Y4-Q03R-000H-HUR6**1.2 Relevant identified uses of the substance or mixture and uses advised against****Application of the substance / the mixture**

Oil-and Fuel Additives

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.

STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

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 GB CLP regulation.

Hazard pictograms

GHS02

GHS07

GHS08

Signal word Danger**Hazard-determining components of labelling:**

C9-10 Alkane/Cycloalkane

Hazard statements

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

(Contd. on page 2)

GB

Safety data sheet according to UK REACH

Printing date 17.09.2024

Version: 9.01 (replaces version 9.00)

Revision: 04.05.2023

Trade name: SONAX Diesel System Cleaner

(Contd. of page 1)

Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261 Avoid breathing vapours.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P331 Do NOT induce vomiting.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

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.

List II: Substances under evaluation for endocrine disruption under an EU legislation.

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

List II

SECTION 3: Composition/information on ingredients

3.2 Mixtures**Description:** Solvent mixture**Dangerous components:**

EC No 927-241-2 Reg.nr.: 01-2119471843-32-xxxx	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics Alternative CAS number: 64742-48-9 ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ STOT SE 3, H336; Aquatic Chronic 3, H412, EUH066	50-<100%
CAS: 27247-96-7 EINECS: 248-363-6 Reg.nr.: 01-2119539586-27-xxxx	2-ethylhexyl nitrate ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332, EUH044	3-<5%
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 (M=1); Aquatic Chronic 1, H410 (M=1)	0.1-<1%

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 of danger area and lay down.

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:

Remove soiled clothing

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

(Contd. on page 3)

Safety data sheet according to UK REACH

Printing date 17.09.2024

Version: 9.01 (replaces version 9.00)

Revision: 04.05.2023

Trade name: SONAX Diesel System Cleaner

(Contd. of page 2)

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

Headache

Nausea

Dizziness

Drowsiness

Skin irritation

Reddening, drying and crack formation of the skin

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed or in case of vomiting, danger of entering the lungs.

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 haze

Foam

Fire-extinguishing powder

Carbon dioxide

For safety reasons unsuitable extinguishing agents: *Water with full jet*

5.2 Special hazards arising from the substance or mixture

Develops readily flammable gases/fumes.

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Nitrogen oxides (NO_x)

Aldehyde

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

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Ensure adequate ventilation

For non-emergency personnel

Keep away from ignition sources.

Wear protective clothing.

For emergency responders *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.

Inform respective authorities in case of seepage into water course or sewage system.

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 section 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

(Contd. on page 4)

Safety data sheet according to UK REACH

Printing date 17.09.2024

Version: 9.01 (replaces version 9.00)

Revision: 04.05.2023

Trade name: **SONAX Diesel System Cleaner**

See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

(Contd. of page 3)

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.

Highly volatile, flammable constituents are released during processing.
Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.
Buildup of explosive mixtures possible without sufficient ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Provide solvent resistant, sealed floor.
Store in a cool location.

Information about storage in one common storage facility:

Store away from foodstuffs.
Store away from oxidising agents.
Observe local/state/federal regulations.

Further information about storage conditions:

Store receptacle in a well ventilated area.
Keep container tightly sealed.
Protect from heat and direct sunlight.
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:

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

WEL (Great Britain) Long-term value: 10 mg/m³

OEL (Ireland) Long-term value: 2 mg/m³

Regulatory information

WEL (Great Britain): EH40/2020

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

DNELs

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

Oral	DNEL	125 mg/kg bw/day (consumer) (ChronicExposure, SystemicEffects)
Dermal	DNEL	125 mg/kg bw/day (consumer) (ChronicExposure, SystemicEffects)
		208 mg/kg bw/day (worker) (ChronicExposure, SystemicEffects)
Inhalative	DNEL	185 mg/m ³ (consumer) (ChronicExposure, SystemicEffects)
		871 mg/m ³ (worker) (ChronicExposure, SystemicEffects)

CAS: 27247-96-7 2-ethylhexyl nitrate

Oral	DNEL	0.025 mg/kg bw/day (consumer) (longterm systematic effects)
Dermal	DNEL	0.52 mg/kg bw/day (consumer) (longterm systematic effects)
		1 mg/kg bw/day (worker) (longterm systematic effects)
Inhalative	DNEL	0.35 mg/m ³ (worker) (longterm systematic effects)

(Contd. on page 5)

Safety data sheet according to UK REACH

Printing date 17.09.2024

Version: 9.01 (replaces version 9.00)

Revision: 04.05.2023

Trade name: SONAX Diesel System Cleaner

(Contd. of page 4)

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

Oral	DNEL	0.25 mg/kg bw/day (vls)
Dermal	DNEL	0.25 mg/kg (vls)
		0.5 mg/kg (wls)
Inhalative	DNEL	0.435 mg/m ³ (vls)
		1.76 mg/m ³ (wls)

PNECs

CAS: 27247-96-7 2-ethylhexyl nitrate

PNEC	0.0008 mg/l (freshwater (Süßwasser))
	10 mg/l (microorganisms)
	0.00008 mg/l (water (sea water))
PNEC	0.00074 mg/kg (sediment (fresh water))
	0.00074 mg/kg (sediment (sea water))
	0.000191 mg/kg (soil)

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

PNEC	0.017 mg/l (sewage plant)
	0.0002 mg/l (freshwater (Süßwasser))
	0.00002 mg/l (sediment (sea water))
PNEC	0.054 mg/kg (gro)
	0.458 mg/kg (sediment (fresh water))
	0.046 mg/kg (sediment (sea water))

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.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Respiratory protection:

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]

Hand protection Protective gloves

Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.4 mm

[EN 374]

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

Eye/face protection

Goggles recommended during refilling

[EN 166]

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state

Fluid

(Contd. on page 6)

Safety data sheet according to UK REACH

Printing date 17.09.2024

Version: 9.01 (replaces version 9.00)

Revision: 04.05.2023

Trade name: SONAX Diesel System Cleaner

(Contd. of page 5)

Colour:	Light yellow
Odour:	Solvent-like
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	139 °C
Flammability	Flammable liquid and vapour.
Lower and upper explosion limit	
Lower:	0.6 Vol % (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics)
Upper:	7 Vol % (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics)
Flash point:	25 °C (DIN 51755)
Decomposition temperature:	Not determined.
pH	Not applicable.
Viscosity:	
Kinematic viscosity at 40 °C	<20.5 mm ² /s
Solubility water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	5 hPa (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics)
Density and/or relative density	
Density at 20 °C:	0.76-0.77 g/cm ³ (DIN 51757)
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:	Not determined.
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 Fumes can combine with air to form an explosive mixture.

(Contd. on page 7)

Safety data sheet according to UK REACH

Printing date 17.09.2024

Version: 9.01 (replaces version 9.00)

Revision: 04.05.2023

Trade name: SONAX Diesel System Cleaner

(Contd. of page 6)

10.4 Conditions to avoid

Keep ignition sources away - Do not smoke.

Protect from heat and direct sunlight.

See Section 7 for information on safe handling.

10.5 Incompatible materials: oxidizing agents**10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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:**Hydrocarbons, C9-C10, 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 / 4h	>4,951 mg/m ³ (rat) (OECD 403)

CAS: 27247-96-7 2-ethylhexyl nitrate

Oral	LD50	>9,640 mg/kg (rat)
Dermal	LD 50	>4,820 mg/kg (rabbit)
Inhalative	ATE	1.5 mg/l
	LC50 / 4h	11 mg/l /Dampf (rat)

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

Oral	LD50	>5,000 mg/kg (rat) (OECD-Prüfrichtlinie 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD-Prüfrichtlinie 402)

Skin corrosion/irritation

Long-term exposure causes slight irritation of the skin.

Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation

May cause slight, short-term eye complaints.

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** May cause drowsiness or dizziness.**STOT-repeated exposure** Based on available data, the classification criteria are not met.**Aspiration hazard**Viscosity: < 20,5mm²/s (40°C)

May be fatal if swallowed and enters airways.

11.2 Information on other hazards**Endocrine disrupting properties**

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

List II: Substances under evaluation for endocrine disruption under an EU legislation.

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

List II

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.

(Contd. on page 8)

GB

**Safety data sheet
according to UK REACH**

Printing date 17.09.2024

Version: 9.01 (replaces version 9.00)

Revision: 04.05.2023

Trade name: SONAX Diesel System Cleaner

(Contd. of page 7)

Aquatic toxicity:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

LL50 / 96h	>10-<30 mg/l (Oncorhynchus mykiss)
EL50 / 48h	>22-<46 mg/l (Daphnia magna)
EL50 / 72h	>1,000 mg/l (Pseudokirchneriella subcapitata)
NOELR 72 h	<1 mg/l (Pseudokirchneriella subcapitata)

CAS: 27247-96-7 2-ethylhexyl nitrate

LC50 / 96 h	2 mg/l (Danio rerio) (OECD 203)
EC50/3h	>1,000 mg/l (activated sludge) (OECD 209)
EC50 / 48h	>12.6 mg/l (Daphnia magna) (OECD 202)
ErC 50 / 72h	>12.6 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

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

LC50 / 96 h	0.758 mg/l (algae)
LC50 / 96h	0.199 mg/l (fish)
EC50 / 48h	0.48 mg/l (Daphnia magna)
NOEC / 21 d	0.053 mg/l (Oryzias latipes)
	0.069 mg/l (Daphnia magna)

12.2 Persistence and degradability

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

Biodegradation	89 % (28d)
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12.3 Bioaccumulative potential

CAS: 27247-96-7 2-ethylhexyl nitrate

log POW	5.24
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12.4 Mobility in soil

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Highly volatile, will partition rapidly to air.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

European waste catalogue

- 1) Disposal / product
- 2) Disposal / contaminated packaging

20 01 13*	solvents
15 01 10*	packaging containing residues of or contaminated by hazardous substances
HP3	Flammable
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP14	Ecotoxic

(Contd. on page 9)

Safety data sheet according to UK REACH

Printing date 17.09.2024

Version: 9.01 (replaces version 9.00)

Revision: 04.05.2023

Trade name: SONAX Diesel System Cleaner

(Contd. of page 8)

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN, IMDG, IATA UN3295

14.2 UN proper shipping name

ADR/RID/ADN 3295 HYDROCARBONS, LIQUID, N.O.S.
IMDG, IATA HYDROCARBONS, LIQUID, N.O.S.

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: Not applicable.

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 3295 HYDROCARBONS, LIQUID, N.O.S., 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) 94.38 %

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

Printing date 17.09.2024

Version: 9.01 (replaces version 9.00)

Revision: 04.05.2023

Trade name: SONAX Diesel System Cleaner

(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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

Relevant phrases

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- 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.
- EUH044 Risk of explosion if heated under confinement.
- EUH066 Repeated exposure may cause skin dryness or cracking.

Classification according to Regulation (EC) No 1272/2008

Flammable liquids	On basis of test data
Specific target organ toxicity (single exposure) Aspiration hazard 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.

Date of previous version: 11.05.2022

Version number of previous version: 9.00

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 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. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

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

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

*** Data compared to the previous version altered.**