

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

Printing date 15.12.2023

Version: 9.00 (replaces version 8.00)

Revision: 04.05.2023

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

1.1 Product identifier

Trade name: SONAX Common Rail Diesel System Protectant

Article number:

05211000

UFI: FR55-N0VG-Y00N-4FF1

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 There is currently no information available on this.

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

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



GHS08

Signal word Danger

Hazard-determining components of labelling:

C10-13 Isoalkane

Hazard statements

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

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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/mixture does not contain components considered to have endocrine disrupting properties according to UK REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

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

EC No 918-481-9 Reg.nr.: 01-2119457273-39-xxxx	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics ⚠ Asp. Tox. 1, H304, EUH066	50-100%
CAS: 104-76-7 EINECS: 203-234-3 Reg.nr.: 01-2119487289-20-xxxx	2-Ethyl-1-hexanol ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	5-<10%
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%

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:

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**

Headache

Nausea

Dizziness

Drowsiness

Reddening, drying and crack formation of the skin

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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:**

Foam

Fire-extinguishing powder

Water haze

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)**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**

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

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:

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.**Information about fire - and explosion protection:**

Highly volatile, flammable constituents are released during processing.

Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:** Provide solvent resistant, sealed floor.**Information about storage in one common storage facility:**

Store away from foodstuffs.

Observe local/state/federal regulations.

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Further information about storage conditions:

Store receptacle in a well ventilated area.

Recommended storage temperature: 20 °C.

Protect from heat and direct sunlight.

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, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics**

RCP-TWA (EU)	Long-term value: 1200 mg/m ³ , 165 ppm Vapour / Total Hydrocarbons
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CAS: 104-76-7 2-Ethyl-1-hexanol

WEL (Great Britain)	Long-term value: 5.4 mg/m ³ , 1 ppm
IOELV (EU)	Long-term value: 5.4 mg/m ³ , 1 ppm
OEL (Ireland)	Long-term value: 5.4 mg/m ³ , 1 ppm IOELV

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

WEL (Great Britain)	Long-term value: 10 mg/m ³
OEL (Ireland)	Long-term value: 2 mg/m ³

Regulatory information

WEL (Great Britain): EH40/2020

IOELV (EU): (EU) 2019/1831

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

DNELs**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics**

Oral	DNEL	18.75 mg/kg bw/day (consumer) (longterm systematic effects)
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CAS: 104-76-7 2-Ethyl-1-hexanol

Oral	DNEL	1.1 mg/kg bw/day (consumer) (longterm systematic effects)
Dermal	DNEL	11.4 mg/bw/day (consumer) (longterm systematic effects)
		23 mg/bw/day (worker) (longterm systematic effects)
Inhalative	DNEL	2.3 mg/m ³ (consumer) (longterm systematic effects)
		53.2 mg/m ³ (worker) (acute short-term local effects)
	DNEL	26.6 mg/m ³ (consumer) (acute locale effects)
		53.2 mg/m ³ (worker) (longterm local effects)
DNEL	12.8 mg/m ³ (worker) (longterm systematic effects)	
	26.2 mg/m ³ (consumer) (longterm local effects)	

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)

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: 104-76-7 2-Ethyl-1-hexanol**

Oral	PNEC	55 mg/kg (RT)
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PNEC	10 mg/l (sewage plant) 0.017 mg/l (water (fresh water)) 0.002 mg/l (water (sea water))
PNEC	0.284 mg/kg (sediment (fresh water)) 0.028 mg/kg (sediment (sea water)) 0.047 mg/kg (soil)
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 (≥ 480)

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

Colour:

Green

Odour:

Solvent-like

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Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	Undetermined.
Flammability	Combustible liquid.
Lower and upper explosion limit	
Lower:	1.2 Vol %
Upper:	8.8 Vol %
Flash point:	62 °C (DIN 51755)
Decomposition temperature:	Not determined.
pH	Not applicable.
Viscosity:	
Kinematic viscosity at 40 °C	<7 mm ² /s
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	0.8-0.81 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:	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	Void
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.
- 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

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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, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Oral	LD50	>8,000 mg/kg (rat)
Dermal	LD50	>3,160 mg/kg (rabbit)
Inhalative	LC50 / 4h	4,951 mg/l (rat)

CAS: 104-76-7 2-Ethyl-1-hexanol

Oral	LD50	>2,000 mg/kg (rat)
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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 (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 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

Viscosity: < 20,5mm²/s (40°C)
May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

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

None of the ingredients is listed.

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:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

LC50 / 4 d	>1,000 mg/l (Oncorhynchus mykiss)
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LL50 / 96h	>1,000 mg/l (<i>Oncorhynchus mykiss</i>)
EC50 / 2 d	>1,000 mg/l (<i>Daphnia magna</i>)
LC50 / 3 d	>1,000 mg/l (<i>Pseudokirchneriella subcapitata</i>)
EC50 / 3 d	>1,000 mg/l (<i>Pseudokirchneriella subcapitata</i>)
CAS: 104-76-7 2-Ethyl-1-hexanol	
EC50 / 0,5 d	>100 mg/l (sludge)
LC50 / 4 d	17.1 mg/l (<i>Leuciscus idus</i>) 28.2 mg/l (<i>Pimephales promelas</i>)
NOEC / 4 d	14 mg/l (<i>Leuciscus idus</i>)
EC50 / 2 d	39 mg/l (<i>Daphnia magna</i>)
EC50 / 3 d	16.6 mg/l (<i>Pseudokirchneriella subcapitata</i>)
EC50 / 0,1 d	540 mg/l (<i>Pseudomonas putida</i>)
CAS: 27247-96-7 2-ethylhexyl nitrate	
LC50 / 96 h	2 mg/l (<i>Danio rerio</i>) (OECD 203)
EC50/3h	>1,000 mg/l (activated sludge) (OECD 209)
EC50 / 48h	>12.6 mg/l (<i>Daphnia magna</i>) (OECD 202)
ErC 50 / 72h	>12.6 mg/l (<i>Pseudokirchneriella subcapitata</i>) (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 (<i>Daphnia magna</i>)
NOEC / 21 d	0.053 mg/l (<i>Oryzias latipes</i>) 0.069 mg/l (<i>Daphnia magna</i>)

12.2 Persistence and degradability**CAS: 104-76-7 2-Ethyl-1-hexanol**

DOC / 5 d | 95 % (OECD TG 302 B)

12.3 Bioaccumulative potential**CAS: 104-76-7 2-Ethyl-1-hexanol**

BCF | 25.35 (calculated)

log Kow | 2.9 (measured)

CAS: 27247-96-7 2-ethylhexyl nitrate

log POW | 5.24

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

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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
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP14	Ecotoxic

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	Void
14.2 UN proper shipping name ADR/RID/ADN, IMDG, IATA	Void
14.3 Transport hazard class(es) ADR/RID/ADN, ADN, IMDG, IATA Class	Void
14.4 Packing group ADR/RID/ADN, IMDG, IATA	Void
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
UN "Model Regulation":	Void

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) 94.20 %
Catégorie SEVESO (DIRECTIVE 2012/18/EU) not subject to
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.
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.

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Relevant phrases

H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H400 Very toxic to aquatic life.
 H410 Very toxic 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

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.
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Date of previous version: 13.07.2022**Version number of previous version:** 8.00**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

Acute Tox. 4: Acute toxicity – Category 4

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

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

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.**