

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation),
EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 07.12.2022

Version number 2 (replaces version 1)

Revision: 07.12.2022

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

1.1 Product identifier**Trade name:** AEGEAN ALFACYLO 540 NG**UFI:** P8N0-Q053-600Q-XEQY**1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the mixture: Lubricant**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Aegean Oil S.A

10, Akti Kondyli,

Piraeus, Greece, 185 45

Tel: (+30) 210 4586000

Fax: (+30) 210 4586244

E-mail: sales-lubes@aegeanoil.gr

1.4 Emergency telephone number:

European Emergency Tel.: 112

* **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture**Classification according to Regulation EC No 1272/2008 CLP:**

GHS08 health hazard

Repr. 1B H360 May damage fertility or the unborn child.

2.2 Label elements**Labelling according to Regulation EC No 1272/2008 CLP:**

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

Hazard pictograms:

GHS08

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

Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50

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Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, calcium salts, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50

Hazard statements:

H360 May damage fertility or the unborn child.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

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

Additional information:

Restricted to professional users.

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: Mixture: consisting of the following components.

Ingredients according Regulation (EU) 2020/878:

CAS: 64742-54-7 EINECS: 265-157-1 Index number: 649-467-00-8 Reg.nr.: 01-2119484627-25-XXXX	Distillates (petroleum), hydrotreated heavy paraffinic, [$<3\%$ IP 346, $>20,5$ cSt @ 40°C]	≥ 40 - $<50\%$
CAS: 64742-62-7 EINECS: 265-166-0 Index number: 649-471-00-X Reg.nr.: 01-2119480472-38-XXXX	Residual oils (petroleum), solvent-dewaxed, [$<3\%$ IP 346, $>20,5$ cSt @ 40°C]	≥ 35 - $\leq 40\%$

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EC number: 701-251-5 Reg.nr.: 01-2119524004-56-XXXX	Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 ----- ☞ Repr. 1B, H360; Aquatic Chronic 4, H413	≥0.3-<2%
EC number: 701-249-4 Reg.nr.: 01-2119524018-47-XXXX	Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, calcium salts, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50 ----- ☞ Repr. 1B, H360; Aquatic Chronic 4, H413	≥0.3-<2%

Additional information:

In accordance with Regulation (EC) No 1272/2008, Note L, reference IP 346/92: 'Dimethyl sulfoxide (DMSO) extraction method', it was determined that the base oils used in this preparation are not carcinogenic.

SECTION 4: First aid measures
4.1 Description of first aid measures
General information:

Take affected persons out into the fresh air.
Seek immediate medical advice.

After inhalation:

If breathing is difficult, remove to fresh air. Restore breathing. Keep warm and quiet.
In case of unconsciousness place patient stably in side position for transportation.
Seek medical treatment in case of complaints.

After skin contact:

Remove contaminated clothing and shoes.
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water.
Remove contact lenses and continue rinsing for several minutes
If skin irritation continues, consult a doctor.
Avoid strong water jet-risk of cornea damage, consult a doctor.

After swallowing:

Drink plenty of water and provide fresh air. Call for a doctor immediately.
Seek immediate medical advice.
Never give anything by mouth to an unconscious person.

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

No further relevant information available.

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SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**CO₂, powder or water spray. Fight larger fires with water spray.

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

In case of fire, toxic and hazardous vapors may be released.

5.3 Advice for firefighters**Protective equipment:**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

Cool adjacent tanks by spraying water at a safe distance.

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.

Avoid contact with the skin, eyes and clothing.

Avoid inhalation of vapors.

Ensure adequate ventilation.

6.1.1 For non-emergency personnel Avoid contact with dripping or leaking material**6.1.2 For emergency responders**

First-aid responders must wear protective clothing, gloves, goggles and respiratory device with filter type A.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.**6.3 Methods and material for containment and cleaning up:**

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

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**

Avoid inhaling vapors.

Avoid contact with skin, eyes and clothing.

Do not eat, drink or smoke during the usage of the product.

Wash hands before each break and after finishing work.

Wash contaminated clothing before reuse.

Put on appropriate personal protective equipment (see section 8 of SDS).

Information about fire - and explosion protection:

Keep away from heat, sparks, open flames and hot surfaces.

7.2 Conditions for safe storage, including any incompatibilities**Storage:** Store in cool, dry conditions in well sealed receptacles.

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Requirements to be met by storerooms and receptacles: Store in a cool location.**Information about storage in one common storage facility:** Store away from oxidising agents.**Further information about storage conditions:**

Keep container tightly sealed.

Store locked up

Protect from heat and direct sunlight.

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

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SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs

(CAS : 64742-54-7) Distillates (petroleum), hydrotreated heavy paraffinic

Workers:

Inhalation - long-term systemic effect: 2.73 mg/m³.Inhalation - long-term local effect: 5.58 mg/m³

Dermal - long-term systemic effect: 0.97 mg/kg bw/d

Consumers:

Oral - 0.74 mg/kg bw/d

(CAS: 64742-62-7) Residual oils (petroleum), solvent-dewaxed

Workers:

Inhalation - long-term systemic effect: 2,73 mg/m³Inhalation - long-term local effect: 5,58 mg/m³

Dermal - long-term systemic effect: 0,97 mg/kg bw/d

Consumers:

Oral - 0.74 mg/kg bw/d

(EC: 701-251-5) Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50.

Workers:

Inhalation - long-term systemic effect: 3,5 mg/m³Inhalation - short-term acute effect: 133,6 mg/m³

Dermal - long-term systemic effect: 8,33 mg/kg bw/d

Dermal - short-term acute effect: 80 mg/kg bw/d

Consumers:

Inhalation - long-term systemic effect: 0.87 mg/m³Inhalation - short-term acute effect: 0,067 mg/m³

Dermal - long-term systemic effect: 4,2 mg/kg bw/d

Dermal - short-term acute effect: 40 mg/kg bw/d

Oral - long-term systemic effect: 0,25 mg/kg bw/d

Oral - short-term acute effect: 50 mg/kg bw/d

(EC: 701-249-4) Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, calcium salts, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50

Workers:

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Inhalation - long-term systemic effect: 3,5 mg/m³Inhalation - short-term acute effect: 133,6 mg/m³

Dermal - long-term systemic effect: 8,33 mg/kg bw/d

Dermal - short-term acute effect: 80 mg/kg bw/d

Consumers:

Inhalation - long-term systemic effect: 0.87 mg/m³Inhalation - short-term acute effect: 0,067 mg/m³

Dermal - long-term systemic effect: 4,2 mg/kg bw/d

Dermal - short-term acute effect: 40 mg/kg bw/d

Oral - long-term systemic effect: 0,25 mg/kg bw/d

Oral - short-term acute effect: 50 mg/kg bw/d

PNECs

(CAS: 64742-54-7) Distillates (petroleum), heavy paraffinic, hydrotreated

Oral: 9,33 mg/kg

(CAS: 64742-62-7) Residual oils (petroleum), solvent-dewaxed

Oral: 9,33 mg/kg

(EC: 701-251-5) Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50.

Fresh water: 0,5 mg/L

Fresh water (intermittent releases): 5 mg/L

Marine water: 0,05 mg/L

STP: 100 mg/L

Sediment (fresh water): 1650 mg/kg sediment dw

Sediment (marine water): 165 mg/kg sediment dw

Soil: 1340 mg/kg soil dw

Secondary poisoning: 11,11 mg/kg food

(EC: 701-249-4) Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, calcium salts, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent-dewaxed, or catalytic dewaxed, light or heavy paraffinic C15-C50

Fresh water: 1 mg/L

Fresh water (intermittent releases): 10 mg/L

Marine water: 0,1 mg/L

STP: 100 mg/L

Sediment (fresh water): 1650 mg/kg sediment dw

Sediment (marine water): 165 mg/kg sediment dw

Soil: 1340 mg/kg soil dw

Secondary poisoning: 11,11 mg/kg food

8.2 Exposure controls**8.2.1. Appropriate engineering controls** Provide adequate ventilation.**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

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Remove contaminated clothes and wash before reusing them.

Do not eat, drink or smoke while using the product.

Do not breathe vapours or mists.

Respiratory protection:



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection



Protective gloves resistant to chemicals (standard EN 374-1)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye/face protection



Goggles recommended during refilling

Body protection:



The types of clothing to be considered for this material include:
chemical / oil resistant clothing is recommended.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state

Liquid

Colour:

Dark brown

Odour:

Characteristic of lubricants

Odour threshold:

Not determined

Flammability

Not applicable

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Lower and upper explosion limit

Lower: Not determined
Upper: Not determined
Flash point: 270 °C (ASTM D92)

Not Flammable

Auto-ignition temperature: Not determined

Decomposition temperature: Not determined

pH Not determined

Viscosity:

Kinematic viscosity at 40 °C 220 mm²/s (ASTM D445)

Dynamic: Not determined

Solubility

water: Not determined

Partition coefficient n-octanol/water (log value) Not determined

Vapour pressure: Not determined

Density and/or relative density

Density at 20 °C: 0.92 g/cm³ (ASTM D4052)

Relative density Not determined

Vapour density Not determined

9.2 Other information

Appearance:

Form: Liquid

Important information on protection of health and environment, and on safety.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Drip point:

Pour point -15 °C (ASTM D97)

Cloud point / clarification point:

Oxidising properties Not oxidising

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

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Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity**10.1 Reactivity** Stable under normal conditions**10.2 Chemical stability** Material is stable under normal conditions.**Thermal decomposition / conditions to be avoided** Stable at environment temperature.**10.3 Possibility of hazardous reactions** No dangerous reactions known.**10.4 Conditions to avoid** Avoid high temperatures and direct sunlight.**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:**

(CAS : 64742-54-7) Distillates (petroleum), heavy paraffinic, hydrotreated

Oral LD50: >5000 mg/kg bw (rat), (API, 1982a and API, 1986a)

Dermal LD50: >2000 mg/kg bw (Rabbit), (API, 1982a and API, 1986a).

Inhalation LD50: >5000 mg/m³ (Rat), (Exxon Biomedical Sciences, Inc., 1988a and API, 1987a)

(CAS : 64742-62-7) Residual oils (petroleum), solvent-dewaxed

Oral LD50: >5000 mg/kg bw (rat), (API, 1982a and API, 1986a)

Dermal LD50: >2000 mg/kg bw (Rabbit), (API, 1982a and API, 1986a).

Inhalation LD50: >5000 mg/m³ (Rat), (Exxon Biomedical Sciences, Inc., 1988a and API, 1987a)**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**

The product is classified as toxic to Reproduction Category 1B.

May damage fertility or the unborn child.

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**The base oils contained in this mixture are not classified with regard to the hazard of aspiration according to paragraphs 3.10.3.3.1.1. & 3.10.3.3.1.2 of CLP Regulation 1272/2008/EC. Their kinematic viscosity at 40 °C is greater than 20,5 mm²/s.

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

Additional toxicological information:**Repeated dose toxicity** Based on available data, the classification criteria are not met.

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CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Repr. 1B

11.2 Information on other hazards
Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information
12.1 Toxicity
Aquatic toxicity:

(CAS : 64742-54-7) Distillates (petroleum), heavy paraffinic, hydrotreated

Freshwater fish 96 hours LC50: > 100 mg/l

Freshwater fish NOEL: > 10 mg/l

Aquatic invertebrates 48 hours EC50: > 10000 mg/l

Freshwater invertebrates NOEL based on mobility and reproductive performance: > 10 mg/l

Algae 72 hours EC50: > 100 mg/l

Water micro-organisms NOEL: 2,17 mg/l

(CAS: 64742-62-7) Residual oils (petroleum), solvent-dehydrated

Freshwater fish 96 hours LC50: > 100 mg/l

Freshwater fish NOEL: > 10 mg/l

Aquatic invertebrates 48 hours EC50: > 10000 mg/l

Freshwater invertebrates NOEL based on mobility and reproductive performance: > 10 mg/l

Algae 72 hours EC50: > 100 mg/l

Water micro-organisms NOEL: 2,17 mg/l

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

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

vPvB: Not applicable.

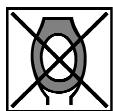
12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations
13.1 Waste treatment methods
Recommendation


Dispose according to National Regulations.



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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Contact manufacturer for recycling information.

European waste catalogue

HP10 Toxic for reproduction

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information
14.1 UN number or ID number
ADR, IMDG, IATA

Void

14.2 UN proper shipping name
ADR, IMDG, IATA

Void

14.3 Transport hazard class(es)
ADR, ADN, IMDG, IATA
Class

Void

14.4 Packing group
ADR, 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

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SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH Regulation 1907/2006/EC

Regulation (EU) 2020/878

CLP Regulation 1272/2008/EC

Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.

Council Directive 94/33/EC on the protection of young people at work, as amended.

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Note L applies. DMSO content is below 3% (IP 346).

Directive 2012/18/EU
Named dangerous substances - ANNEX I Substance is not listed.

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REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

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.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

National regulations:
Other regulations, limitations and prohibitive regulations
Substances of very high concern (SVHC) according to REACH, Article 57

It doesn't contain substances of very high concern (SVHC).

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

H360 May damage fertility or the unborn child.

H413 May cause long lasting harmful effects to aquatic life.

Training hints

Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

Classification according to Regulation (EC) No 1272/2008

Reproductive toxicity	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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Department issuing SDS:


SUSTCHEM S.A.
 REACH & Chemical Services Department
 A: 144, 3rd Septemvriou, GR 112 51 | Athens, Greece
 T: +30 210 8252510 | F: +30 210 8252575
 W: www.sustchem.gr | E: info@suschem.gr

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Version number of previous version: 1**Abbreviations and acronyms:**

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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Repr. 1B: Reproductive toxicity – Category 1B

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

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