

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

Printing date 24.10.2019

Version number 106

Revision: 25.03.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking**- 1.1 Product identifier****- Trade name: Orange Plus Cleaner****- Article number: LOS8960****- 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**Cleaning agent / Cleaner
Solvents**- 1.3 Details of the supplier of the safety data sheet****- Manufacturer/Supplier:**

EURO-LOCK Vertriebs-GmbH

Nordweststrasse 3

D-59387 Ascheberg

Phone: + 49 (0) 2593 / 95 88 7 - 0

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- 1.4 Emergency telephone number:

Phone: + 49 (0) 2593 / 95 88 7 - 0

Monday - Thursday 8.00 a.m. - 5.00 p.m. and Friday 8.00 a.m. - 1.00 p.m.

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.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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

Aquatic Chronic 2 H411 Toxic 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 GHS07 GHS08 GHS09

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

Orange terpenes

- Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

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H304 May be fatal if swallowed and enters airways.

H411 Toxic 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.

P103 Read label before use.

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

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

P331 Do NOT induce vomiting.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

P403+P235 Store in a well-ventilated place. Keep cool.

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

- 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 of the substances listed below with harmless additions

- Dangerous components:

CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44	2-(2-butoxyethoxy)ethanol ----- Eye Irrit. 2, H319	50-100%
CAS: 8028-48-6 EINECS: 232-433-8 Reg.nr.: 01-2119493353-35	Orange terpenes ----- Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	25-50%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

- Composition/Ingredients

Constituents according to EC-Regulation 648/2004:

Perfumes (Limonene),

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- General advice:

Instantly remove any clothing soiled by the product.

In case of unconsciousness bring patient into stable side position for transport.

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.

- After skin contact

Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.

Remove contaminated clothing immediately. Wash affected areas with plenty of water und soap. If irritation continues, contact a doctor.

- After eye contact

Rinse immediately opened eye for several minutes under running water. Then consult doctor.

- After swallowing

Do not induce vomiting; instantly call for medical help.

If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

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- 4.2 Most important symptoms and effects, both acute and delayed*No further relevant information available.***- Information for doctor***Cleaning of the stomach should only be carried out with endotracheal intubation. Danger of aspiration. Renew lipid coating of the skin in order to protect against dermatitis. Symptomatic treatment.***- 4.3 Indication of any immediate medical attention and special treatment needed***No further relevant information available.***SECTION 5: Firefighting measures****- 5.1 Extinguishing media****- Suitable extinguishing agents***CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.***- For safety reasons unsuitable extinguishing agents** *Water with a full water jet.***- 5.2 Special hazards arising from the substance or mixture***Can form explosive gas-air mixtures. In case of incomplete combustion carbon monoxide can arise. Fumes are heavier than air and distributed over ground. Inflammation is possible from a far distance.***- 5.3 Advice for firefighters****- Protective equipment:***See section 8.**Wear full protective suit with self-contained breathing apparatus.***- Additional information** *Collect contaminated fire fighting water separately. It must not enter drains.***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 and keep unprotected persons away.***- 6.2 Environmental precautions:***Prevent material from reaching sewage system, holes and cellars.**Inform respective authorities in case product reaches water 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 of contaminated material as waste according to item 13.***- 6.4 Reference to other sections** *Danger of explosion***SECTION 7: Handling and storage****- 7.1 Precautions for safe handling***Keep containers tightly sealed.**Ensure good ventilation/exhaustion at the workplace. Avoid repeated or long-term skin contact.***- Information about protection against explosions and fires:***Keep ignition sources away - Do not smoke.**Protect against electrostatic charges.***- 7.2 Conditions for safe storage, including any incompatibilities****- Storage***Protect against direct sunlight, other sources of heat and ignition.**Store in cool, dry conditions in well sealed containers.***- Requirements to be met by storerooms and containers:***Observe official regulations on storage and handling of water hazardous substances*

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- **Information about storage in one common storage facility:**
According to guidelines of the VbF, flammable liquids should not be stored together.
- **Further information about storage conditions:**
Pay attention to regulations/technical rules for the storage of combustible liquids.
- **Storage class 3** (VCI - Konzept, 2007)
- **7.3 Specific end use(s)** Industrial processing.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:**
Room ventilation i.e. vacuum suction. Measures to be taken against electro-static sparks.

- 8.1 Control parameters

- **Components with critical values that require monitoring at the workplace:**

112-34-5 2-(2-butoxyethoxy)ethanol (50-100%)

WEL	Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm
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- DNELs

112-34-5 2-(2-butoxyethoxy)ethanol

Oral	DNEL (population)	1.25 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	20 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (population)	10 mg/kg bw/day (Long-term, systemic effects)
	DNEL (worker)	101.2 mg/m ³ (Acute, local effects) 67.5 mg/m ³ (Long-term, systemic effects)
	DNEL (population)	50.6 mg/m ³ (Acute, local effects) 34 mg/m ³ (Long-term - local effects)

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Oral	DNEL (population)	4.44 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	8.89 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (population)	4.44 mg/kg bw/day (Long-term, systemic effects)
	DNEL (worker)	31.1 mg/m ³ (Long-term, systemic effects)
	DNEL (population)	7.78 mg/m ³ (Long-term, systemic effects)

- PNECs

112-34-5 2-(2-butoxyethoxy)ethanol

PNEC water	1.0 mg/l (freshwater) 0.1 mg/l (Seawater)
PNEC	200 mg/l (sewage plant)
PNEC sediment	4 mg/kg (freshwater)
PNEC soil	0.4 mg/kg (soil)

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PNEC water	5.4 mg/l (freshwater) 0.54 mg/l (Seawater) 5.77 mg/l (intermittent releases)
PNEC	2.1 mg/l (sewage plant)
PNEC	0.261 mg/kg dw (soil)

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PNEC sediment	1.3 mg/kg dw (freshwater)
	0.13 mg/kg dw (Seawater)

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
 - Keep away from food, beverages and fodder.
 - Instantly remove any soiled and impregnated garments.
 - Wash hands during breaks and at the end of the work.
 - Avoid contact with the eyes and skin.
 - Gases, fumes and aerosols should not be inhaled.
- **Breathing equipment:**
 - Respiratory protection necessary at exposure limit excess, insufficient ventilation, insufficient exhaustion, prolonged exposure, handling of large amounts.
- **Recommended filter device for short term use:** Combination filter A-P2
- **Protection of hands:**
 - Protective gloves.
 - 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**
 - Fluorocarbon rubber (Viton)
 - Recommended thickness of the material: ≥ 0.7 mm
 - Nitrile rubber, NBR
 - Recommended thickness of the material: ≥ 0.4 mm
 - 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 preparation 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**
 - Material of gloves is recommended for a short-term single use to protect from splashes. For permanent usage contact manufacturer of gloves.
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed safety glasses.
- **Body protection:**
 - Standard protective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear impenetrable protective clothing against this solvent.
- **Limitation and supervision of exposure into the environment**
 - See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties**- 9.1 Information on basic physical and chemical properties****- General Information****- Appearance:**

Form:	Fluid
Colour:	colourless-yellowish
	Colourless - light yellow

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- Smell:	<i>citrus like</i>
- pH-value:	<i>not applicable</i>
- Melting point/freezing point:	<i>Not determined</i>
- Initial boiling point and boiling range:	<i>224 °C</i>
- Flash point:	<i>≥ 48 °C</i>
- Ignition temperature:	<i>225 °C</i>
- Self-inflammability:	<i>Product is not selfigniting.</i>
- Explosive properties:	<i>Product is not explosive. However, formation of explosive air/steam mixtures is possible.</i>
- Critical values for explosion:	
Lower:	<i>0.7 Vol %</i>
Upper:	<i>6.1 Vol %</i>
	<i>(lowest and highest value of the individual components)</i>
- Vapour pressure:	<i>Not determined.</i>
- Density at 20 °C	<i>0.896 g/cm³</i>
- Solubility in / Miscibility with Water:	<i>Partly miscible</i>
- 9.2 Other information	<i>No further relevant information available.</i>

SECTION 10: Stability and reactivity

- **10.1 Reactivity** *No further relevant information available.*
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** *No dangerous reactions known*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:** *strong oxidizing agents*
- **10.6 Hazardous decomposition products:**
Formation of carbon monoxide and carbon dioxide in case of fire.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** *Based on available data, the classification criteria are not met.*

- **LD/LC50 values that are relevant for classification:**

112-34-5 2-(2-butoxyethoxy)ethanol		
Oral	LD50	> 2000 mg/kg (rat) 2400 mg/kg (mouse) 5660 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit) 4000 mg/kg (rbt)
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Oral	LD50	> 5700 mg/kg (rat)

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Dermal	LD50	> 5000 mg/kg (rabbit)
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- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **Subacute to chronic toxicity:**

- **STOT-repeated exposure:**

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Oral	NOAEL subchronic	591 mg/kg/d (rat)
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- **Aspiration hazard:**
May be fatal if swallowed and enters airways. Based on physical and chemical properties of the product.
- **Additional toxicological information:**
Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis. Aspiration into the lungs may cause chemical pneumonitis which can be fatal.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for 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**
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

- 12.1 Toxicity

- **Aquatic toxicity:**

112-34-5 2-(2-butoxyethoxy)ethanol

LC 50 / 96 h	1300 mg/l (Lepomis macrochirus)
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	1150 mg/l (Poecilia reticulata)
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EC 50 / 48 h	4950 mg/l (Daphnia magna)
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EC 50 / 24 h	3200 mg/l (Daphnia magna)
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LC 50 / 96 h	0.7 mg/l (Pimephales promelas)
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EC 50 / 48 h	0.67 mg/l (Daphnia magna) (OECD 202)
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EC 50 / 72 h	150 mg/l (Desmodemus subspicatus) (OECD 201)
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- **12.2 Persistence and degradability**

112-34-5 2-(2-butoxyethoxy)ethanol

DOC - Elimination	> 90 % (OECD 301 E)
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Biodegradability	> 80 % (-) (28 d, OECD 301 C)
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Biodegradability	72-83.4 % (OECD 301 B)
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- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.

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- **Ecotoxicological effects:**
- **Remark:**
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Additional ecological information:**
- **General notes:**
*Also poisonous for fish and plankton in water bodies.
Water hazard class 2 (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water bodies 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**
The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.
- **Recommendation**
*Must not be disposed of together with household garbage. Do not allow product to reach sewage system. If possible, send to be recycled, otherwise burn or deposit in a certified facility.
Contaminated water to separate by separator and dispose off in line with administrative regulations.*
- **Waste disposal key number:**
Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.
- **Uncleaned packagings:** Disposal must be made according to official regulations.
- **Recommendation:**
*Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.
Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.
Caution: Leftovers in the containers may cause the risk of explosion.
Uncleaned containers should not be perforated, cut or welded.*

SECTION 14: Transport information

<ul style="list-style-type: none"> - 14.1 UN-Number - ADR, IMDG, IATA 	<p style="margin: 0;">UN1993</p>
<ul style="list-style-type: none"> - 14.2 UN proper shipping name - ADR - IMDG - IATA 	<p style="margin: 0;">1993 FLAMMABLE LIQUID, N.O.S. (Orange terpenes), ENVIRONMENTALLY HAZARDOUS, special provision 640E</p> <p style="margin: 0;">FLAMMABLE LIQUID, N.O.S. (Orange terpenes), MARINE POLLUTANT</p> <p style="margin: 0;">Flammable liquid, n.o.s. (Orange terpenes)</p>
<ul style="list-style-type: none"> - 14.3 Transport hazard class(es) - ADR - Class 	<p style="margin: 0;">3 (F1) Flammable liquids.</p>

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- Label	3
- IMDG, IATA	
- Class	3 Flammable liquids.
- Label	3
- 14.4 Packing group	
- ADR, IMDG, IATA	III
- 14.5 Environmental hazards:	
- Marine pollutant:	Yes Symbol (fish and tree)
- Special marking (ADR):	Symbol (fish and tree)
- 14.6 Special precautions for user	Warning: Flammable liquids.
- Kemler Number:	30
- EMS Number:	F-E, S-E
- Stowage Category	A
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- Transport/Additional information:	
- ADR	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- Transport category	3
- Tunnel restriction code	D/E
- IMDG	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	Código E4 Cantidad neta máxima por envase interior: 30 ml. Cantidad neta máxima por embalaje exterior: 500 ml.
- UN "Model Regulation":	UN1993, FLAMMABLE LIQUID, N.O.S. (Orange terpenes), special provision 640E, 3, III, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

- Labelling according to Regulation (EC) No 1272/2008

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

- Hazard pictograms



GHS02 GHS07 GHS08 GHS09

- Signal word *Danger*

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- Hazard-determining components of labelling:

Orange terpenes

- Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

H411 Toxic 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.

P103 Read label before use.

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

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

P331 Do NOT induce vomiting.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

P403+P235 Store in a well-ventilated place. Keep cool.

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

- Directive 2012/18/EU**- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t****- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t****- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 55****- National regulations****- Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Application: Directions for use: please refer to the Technical Information Sheet**- Relevant phrases**

Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

- Department issuing data specification sheet: see item 1: Informing department**- 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)

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ICAO: International Civil Aviation Organisation
LEV: Local Exhaust Ventilation
NOAEL: No Observed Adverse Effect Level
RPE: Respiratory Protective Equipment
RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)
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
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)
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)
TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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