



SAFETY DATA SHEET

(according to: Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 (REACH))

FOR-SALE

Date: 06.09.2014

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Revision date 04.05.2015

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

1.1. Product identifier

Name of product: **OA CARPET CARE**

Code:

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Shampoo for textile carpets.

Process categories (explanations see section 16): PROC 8, PROC 9, PROC 11, PROC 13

Uses advised against: None known.

Process categories (explanations, see section 16)

1.3. Details of the supplier of the safety data sheet

Manufacturer

(entity responsible): Fabb Sp. z o.o.
AL. Armii Krajowej 178
PL 43-300 Bielsko-Biała
Tel: 334711174
kontakt@oaisfair.com
katarzyna.galuszka@fabb.pl

1.4. Emergency telephone number

112 (general emergency telephone), 998 (fire department), 999 (emergency ambulance service)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture. Classification according to Regulation (EC) no 1272/2008 [CLP]

This product is classified as hazardous.

The classification of this product is based on a toxicological assessment.

Eye irritation – cat. 2, H319

Skin irritation – cat. 2, H 315

Additional information:

Full text of the hazard statements EUH: see: SECTION 16.

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Signal word:

ATTENTION

Expressions concerning the type of hazard:

Eye irritation. Hazard class 2

Skin irritation. Hazard class 2

Precautionary statements:



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P260 Do not breathe dust/fume/gas/mist/vapours/ spray.

P264 Wash thoroughly after handling.

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

P301 + P330 + P331

IF SWALLOWED: Rinse mouth. Do not induce vomiting. call a POISON CENTER or doctor / physician.

P303 + P361 + P353

IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304 + P340

IF IN RESPIRATORY TRACT: Remove victim to fresh air and keep at rest in a position comfortable for easy breathing..

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.

P321 Apply specific treatment (see ... on this label).

P405 Store locked up.

P501 Dispose of contents / container to properly labeled containers for separate waste collection

Supplemental hazard information (EU): Not applicable.

2.3. Other hazards

Risk of blindness if the product is swallowed.

Components do not meet the vPvB criteria according to Annex XIII of Regulation (EC) No 1907/2006

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description of the mixture:

A mixture of surfactants with isopropanol.

Hazardous Ingredients:

Ethoxylated alcohols C9-11 <10%

CAS 160901-09-7, WE Polimer

Acute Tox.4,H302,

Eye Dam.1,H318

Alkyl ether sulfates < 5%

CAS 68891-38-3, WE 500-234-8

Nr rej, REACH 01-2119488639-16-XXXX

Skin Irrit. 2, H315

Eye Dam. 1, H318

Aquatic Chronic. 3, H 412

Isopropyl alcohol <5%

CAS 67-63-0, WE 200-661-7

Index no.: 603-117-00-0

Nr rej. REACH: 01-2119457558-25-XXXX

STOT, kat.3,H336,

Eye Irrit.2, H319,

Flam.Liq.2,H225



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Full wording of H-phrases see SECTION 16.

SECTION 4: First aid measures

Eye contact:	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes with the eyelids open. Seek medical attention when irritation persists.
Respiratory tract:	Take the injured person out of the place of exposure, provide access to fresh air, keep calm. Contact a doctor if symptoms of indisposition appear.
Skin contact:	In case of prolonged skin contact, wash off with soap and water.
Ingestion:	Not applicable when the product is used in accordance with its intended use.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training.

4.2. Most important symptoms and effects, both acute and delayed

Potential acute health effects of the substance or preparation

Potential acute health effects of the substance or preparation: Contact with eyes causes irritation, redness, eye pain

Respiratory tract: Inhalation of vapors may cause headache, dizziness, nausea and vomiting.

Skin contact: Permanent and prolonged contact with the skin may cause irritation or dryness

Ingestion: Ingestion causes abdominal pain, vomiting.

Symptoms resulting from overexposure

Eye contact: No data.

Respiratory tract: No data.

Skin contact: No data.

Ingestion: No data.

4.3. Indication of any immediate medical attention and special treatment needed

Information for physician: symptomatic treatment. In case of ingestion or inhalation of large amounts, immediately contact a doctor specialized in the treatment of poisoning with poisons.

Special ways of treatment: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

If the product is near, fires should be extinguished with agents appropriate for the burning materials

Suitable extinguishing media: The product is non-flammable, does not support burning.

Unsuitable extinguishing media: Not known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture: Not known.

Hazardous combustion products: Not known..

5.3 Advice for firefighters

Special precautions for firefighters: Promptly isolate the scene of fire by removing all persons from the vicinity of the incident if there is a fire. Unless you are properly trained, you should not take any action that would create any risk to anyone.

Personal protective equipment for firefighters: Firefighters should wear protective equipment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency Unless you are properly trained you should not carry out any action involving any





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personnel: personal risk. Evacuate people from nearby places. Do not give permission to enter - to unnecessary and unsecured personnel. Do not touch or walk over spilled material. Do not inhale vapors or mist. Provide adequate ventilation. In case of insufficient ventilation, you must wear an appropriate mask. Put on appropriate personal protective equipment.

For emergency personnel: If special clothing is required to remove the spill, see section 8 for appropriate and unsuitable materials. See also Section 8 for additional information on hygiene measures.

6.2. Environmental precautions

Protect against getting the spilled/spread material into the soil or contact with soil, surface and groundwater, drains and sewage systems. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Minor contamination: Remove containers from the area. Collect the material and place it in a marked container. Send for liquidation to a licensed waste disposal company.

Substantial contamination: Remove containers from contamination area. Approach to this place from the wind side. Secure the outlets of sewage systems, water installations, entrances to cellars and closed areas.. Collect the material and place it in a marked container. Send for liquidation to a licensed waste disposal company.

6.4. Reference to other sections: See Section 1 for emergency contact information.

See section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section provides general advice and guidance. For information regarding specific uses according to the exposure scenarios, please refer to the Section 1 Identification of the substance.

7.1. Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see section 8). Do not allow to get to eye, skin or clothes. Do not inhale vapors or mist. Do not eat it. If, under normal conditions of use, a material is hazardous for respiratory tract, use adequate ventilation or wear a respiratory system. Store in original container or an approved alternative container made of compatible material and tightly closed when not in use. Keep away from acids. Empty containers may contain product residue and can be hazardous. Do not re-use the container.

General occupational hygiene: Eating, drinking, and smoking should be prohibited in places near the storage of this material, or where it is handled and processed. Workers should wash their hands and face before eating, drinking or smoking. Before entering the dining room, remove contaminated clothing and protective equipment. See also Section 8 for additional information on hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities

Store in the following temperatures: 0 to 40 ° C (32 to 104 ° F). Store in accordance with local regulations. Store in the original package, away from direct sunlight; in a dry, cool and well-ventilated places and away from incompatible materials (see section 10), drinks and food. Keep away from acids. The container should be closed and sealed until use. Containers that have been opened must be sealed again and stored upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containers to avoid environmental contamination

7.3. Specific end use(s)

Recommendations: N/A

Specific solutions for industrial sector: N/A

SECTION 8: Exposure controls/personal protection

The information in this section contains general advice and guidance. For information regarding



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specific uses according to the exposure scenarios, please refer to the Section 1 Identification of the substance.

8.1. Control parameters

The highest permissible concentrations of the substance in the work environment:

Product/ingredient name	Limit values of hazard
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Alkohol Izopropylowy	Workers: DNEL - long-term exposure - through skin 888 mg/kg/day DNEL - long-term exposure - inhalation 500 mg/m ³ Ogól społeczeństwa DNEL - long-term exposure - through skin 319 mg/kg/day DNEL - long-term exposure - inhalation 89 mg/m ³ DNEL - long-term exposure - swallowing 26 mg/kg/day Refers to the environment PNEC - fresh water 140,9 mg/l PNEC - sea water 140,9 mg/l PNEC sediment - fresh water 552 mg/kg PNEC sediment - sea water 552 mg/kg PNEC soil 28 mg/kg The highest permissible concentrations: NDS = 900 mg/m ³ NDSCh = 1200 mg/m ³ (according to the Regulation of the Ministry of Labor and Social Policy of November 29, 2002; Journal of Laws No. 217, item 1833 as amended)
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Information on monitoring procedures:

Recommendations for the monitoring procedure of the content of hazardous components in the air - measurement methodology:

-Regulation of the Minister of Health of 20 April 2005 on tests and measurements of factors harmful to health in the work environment (Journal of Laws No. 73, item 645)

-PN-89 / Z-01001/06. Air purity protection. Names, terms and units. Terminology related to air quality tests at workplaces.

-PN Z-04008-7: 2002. Air purity protection. Sampling. Principles of air sampling in the work environment and interpretation of results.

-PN-EN-689: 2002. Air at workplaces - guidelines for the assessment of exposure of respiratory tract to chemical agents by comparison with limit values and measurement strategy.

Note: When the concentration of the substance is determined and known, the selection of personal protective equipment should be made taking into account the concentration of the substance in the workplace, exposure time and activities performed by the employee.

In an emergency, if the concentration of the substance at the workplace is unknown, use personal protective equipment of the highest recommended protection class. The employer is obliged to ensure that the personal protective equipment used, as well as clothing and footwear, have protective and functional properties, and ensure that they are properly washed, maintained, repaired and decontaminated. The recommended preliminary and periodic health examinations of employees should be carried out in accordance with the Regulation of the Minister of Health and Social Welfare of 30 May 1996 on medical examinations of employees, the scope of preventive health care for employees and medical certificates issued for the purposes provided for in the Labor Code (Journal of Laws No. 69/1996, item 332, as amended, Journal of laws No. 37/2001 item 451)



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8.2. Exposure controls

The personal protective equipment used should meet the requirements of the Regulation of the Minister of Economy of December 21, 2005 on the main requirements for personal protective equipment (Journal of Laws No. 259, item 2173).

Protection of respiratory tract:

Not required

Eye protection:

tight protective glasses

Hand protection:

chemical resistant gloves made of neoprene or nitrile rubber

Technical protective measures:

Exhaust ventilation; eye wash stations

Other protective equipment:

work clothes

Recommendations in general:

Do not eat, drink or smoke while handling the product. Wash hands after finishing work and before each break.

SECTION 9: Physical and chemical properties:

9.1. Information on basic physical and chemical properties

Physical state	Transparent liquid
Odour	Specific
Próg zapachu	Not determined
pH	Approx. 8
Melting/freezing point :	< 0 °C
Initial boiling point and boiling range	< 72 °C
Flash point	Non-flammable product
Vapour rate	Not determined
Combustibility	Non-flammable product
Lower and upper explosion limits;	Non-explosive material
Vapor pressure	Not determined
Vapor density	Not determined
Relative density	0,95 g/dm ³
Solubility	full
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Breakdown temperature	Not determined
Viscosity	Not determined
Explosive properties	Does not create the possibility of spontaneous explosion
Oxidizing properties	The mixture has no oxidizing properties

9.2 Other information

No additional data was identified

SECTION 10: Stability and reactivity

10.1. Reactivity

No special reactivity.

10.2. Chemical stability

The product is chemically stable when properly stored and used (at room temperature).

10.3. Possibility of hazardous reactions

No hazardous reactions when used as intended.

10.4. Conditions to avoid

Unknown.



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10.5. Incompatible materials

Strong acids, oxidizing substances.

10.6. Hazardous decomposition products

Unknown.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity :

Isopropyl alcohol

Acute toxicity - digestive tract: LD50>2000 mg/kg (for 100% isopropanol)

Acute toxicity - skóra: LD50>2000 mg/kg (for 100% isopropanol)

Acute toxicity - respiratory tract: LC50 (probably) above 5 mg/l (for 100% isopropanol)

Corrosion / irritation:

- eyes: causes irritation

- skin: not irritating

Sensitization:

- skin: non-allergenic (guinea pig, test for 100% isopropanol)

- inhalation: no data available

Mutagenic effect: Ames test - negative (for 100% isopropanol)

Carcinogenicity: no data available

Reproductive toxicity: no data available

Toxic action on specific target organ - single exposure: no data available

Toxic action on specific target organ - repeated exposure: no data available

Aspiration hazard: no data available

Non-ionic surfactants

Acute toxicity : LD50 (orally) approx. 2000mg/kg

Has a degreasing effect on the skin. Contact of undiluted substance and its concentrated aqueous solutions may cause inflammatory reactions, prolonged contact with skin may cause irritation.

Contact of the pure substance with the eye causes persistent inflammation of the conjunctiva, eyelid edema and corneal opacity

Alkyl ether sulfates

LD50 Dermal Rat -Male, Female >2000 mg/kg -

LD50 Oral Rat -Male, Female>2500 mg/kg -

LD50 Oral Rat -Male, Female 4100 mg/kg

Corrosive / irritating effect on the skin

Skóra - Erythema / scab Rabbit 3,2 to 4 24 to 72 hours

Skin - Swelling Rabbit 3,2 to 4 24 to 72 hours

Serious eye damage / eye irritation

Eyes - Corneal opacity Rabbit 0,5 to 4 24 to 72 hours

Eyes - Iris injury Rabbit 0,4 to 2 24 to 72 hours

Eyes - Swelling of the conjunctiva Rabbit 0,9 to 3 24 to 72 hours

Eyes - Swelling of the conjunctiva Rabbit 0,8 to 4 24 to 72 hours

Eyes - Corneal opacity Rabbit 1,2 do 4 24 to 72 hours

Not allergenic for skin.

Eyes - Iris injury Rabbit 0,8 to 224 to 72 hours

Eyes - Conjunctiva redness Rabbit 2,8 to 3 24 to 72 hours

Skin corrosion/irritation:

Product classification according to (EC) No. 1272/2008, see section 2





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Serious eye damage / eye irritation:

Product classification according to (EC) No. 1272/2008, see section 2

Respiratory or skin:

The product does not contain significant concentrations of ingredients with sensitizing properties

Mutagenic effect on reproductive cells:

The product does not contain significant concentrations of components with mutagenic properties

Carcinogenicity:

The product does not contain significant concentrations of components with carcinogenic properties

Harmful for reproductiveness:

The product does not contain significant concentrations of ingredients having impact on reproductiveness

SECTION 12: Ecological information

12.1. Toxicity

Data for ingredients

Isopropyl alcohol

Ecotoxicity (for 100% isopropanol):

Toxicity to fish - *Leuciscus idus melanotus*: LC50 > 100 mg / l / 48h

Toxicity to daphnia - *Daphnia magna*: EC50 > 100 mg / l / 48h

Toxicity to algae - *Scenedesmus subspicatus*: EC50 > 100 mg / l / 72h

Non-ionic surfactants

The product is hardly volatile, soluble in water, after dissolving in water, it can penetrate into groundwater.

Initial biodegradability determined in accordance with 82/242 / EEC is above 80%

Final aerobic biodegradation performed by manometric respirometry method according to 67/548 / EEC Annex V.C.4-D is 76%.

Alkyl ether sulfates

Acute EC50 2.6 mg / l Fresh water Algae - *Desmodesmus subspicatus* 72 hours

Acute EC50 27 mg / l Fresh water Algae - *Desmodesmus Subspicatus* 72 hours

Acute EC50 7.2 mg / l Fresh water Daphnia- *Daphnia magna* 48 hours

Acute LC50 7.1 mg / l Fresh water Fish - *Brachydanio rerio* 96 hours

Acute toxicity NOEC 0.18 mg / l Fresh water Daphnia - *Daphnia magna* 21 days

Acute toxicity NOEC 0.27 mg / l Fresh water Daphnia - *Daphnia magna* 21 days

Acute toxicity NOEC 1 mg / l Fresh water

Fish - *Pimephales promelas* 45 days

Acute toxicity NOEC 1 mg / l Fresh water

Fish - *Pimephales promelas* 45 days

12.2. Persistence and degradability

Surfactants:

The surfactants contained in this preparation comply with the biodegradability criteria of Regulation 648/2004/WE regarding detergents.

Other organic ingredients:

The biodegradability of the organic components contained in the product meets at least the criteria of the OECD 302 B test.

12.3. Bioaccumulative potential



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The mixture contains substances soluble in water. The mobility potential is high.

2.4. Mobility in soil

The mixture contains substances soluble in water. The mobility potential is high.

12.5. Results of PBT and vPvB assessment

The product ingredients do not meet the criteria for PBT or vPvB substances in accordance with Annex XIII of the Regulation (EC) 1907/2006

12.6. Other adverse effects

No data

SECTION 13: Disposal considerations

13.1. Waste disposal methods

Comply with the provisions of the Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21), as amended

Comply with the provisions of the Act of June 13, 2013 on the management of packaging and packaging waste (Journal of Laws of 2013, item 888)

Regulation of the Minister of the Environment of 27 September 2001 on the waste catalog (Journal of Laws 2001 No. 112, item 1206)

Waste code:

20 01 30 other detergents (other than those mentioned in 20 01 29)

Destroy by burning in specially prepared devices complying with the waste disposal regulations. Empty the contaminated packaging of residues, dispose of it as an unused product.

SECTION 14: Transport information

14.1. UN number

No

14.2. UN proper shipping name

No

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

The product is not hazardous to the environment according to 2.2.9.1.10 of ADR..

14.6. Special precautions for user

No

4.7. Bulk transport in accordance with Annex II to MARPOL 73/78 convention and the IBC Code

The product is not intended to be transported in bulk

SECTION 15: Regulatory information

Chemical safety assessment: No Chemical Safety Assessment has been carried out..

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Substances of very high concern

None of the ingredients is in the list

Manufacturing restrictions Not applicable

Place on the market and use
certain hazardous substances,
mixtures and products.



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Other EU regulations

Ingredient declaration according to the Regulation (EC) No 648/2004 on detergents

Non-ionic surfactants <10%, amphoteric surfactants <5%

Directive 67/548 / EEC on the classification and labeling of dangerous substances;
Directive 1999/45 / EC on the classification and labeling of dangerous preparations;
Regulation 648/2004 / EC on detergents;
Regulation 1907/2006 / EC on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws No. 63, item 322);
Regulation of the Minister of Environment of September 27, 2001 on the waste catalog (Journal of Laws No. 112, item 1206);
Regulation of the Minister of Labor and Social Policy of November 29, 2002 on the highest permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws No. 217, item 1833);
Regulation of the Minister of Health of 2 September 2003 on the criteria and method of classification of chemical substances and preparations (Journal of Laws No. 171, item 1666);
Regulation of the Minister of Health of 5 March 2009 on labeling packages of hazardous substances and preparations and some chemical preparations (Journal of Laws No. 53, item 439).
Volatile organic compounds (VOC) according to 1999/13 / EC: <30%

15.2. Chemical safety assessment

The product has not been tested for chemical safety according to 1907/2006/EC, Annex I.

SECTION 16: Other information

Wording of the hazard class statements (see section 3)

Eye Dam.1	Serious eye damage / eye irritation
Skin Irrit. 2,	Skin corrosion / irritation
Acute Tox. 4	Acute toxicity
Eye Irrit. 2	Serious eye damage / eye irritation
Aquatic Chronic. 3	Hazardous to the aquatic environment
STOT 3	Toxic to target organs
Flam Liq. 3	Flammable liquids

Process categories according to ECHA guidance on information requirements and evaluation
Chemical Safety, Chapter R.12

Wording of the hazard statements (see section 3)

H 225 Highly flammable liquid and vapor.
H 302 Harmful if swallowed
H 315 Causes skin irritation.
H 318 Causes serious eye damage.
H 319 Causes serious eye irritation
H 336 May cause drowsiness or dizziness
H412 Harmful to aquatic life with long-lasting effects.

PROC 8 (Transfer): Dilution of concentrates, use of pipe cleaners.

PROC 9 (Packaging of containers): Transfer of substances or preparations into small containers (dedicated filling line, including weighing), Industrial conditions;

PROC 11 (Non industrial spraying): Processing techniques with spraying on large surface (e.g.



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high pressure cleaning techniques, foam lance).PROC 13 (Namaczenie): Treatment of articles by dipping, pouring, immersing, soaking, washing out or washing in substances; including cold formation or resin type matrix
SU 21 Household

Abbreviations and acronyms

Expl. - Explosive

Flam. Gas - Flammable gas

Flam. Aerosol - Flammable aerosol product

Ox. Gas - Oxidizing gas

Press. Gas - Gas under pressure

Flam. Liq. - Flammable liquid

Flam. Sol. - Flammable solid

Self-react. - Self-reactive substance or mixture

Pyr.liq. - Pyrophoric liquid

Pyr.sol. - Pyrophoric solid

Self-heat - A self-heating substance or mixture

Water-react. - Substance or mixture which in contact with water generates a flammable gas

Ox. Liq. - Oxidising liquid

Ox. Sol. - Oxidising solid

Org. Perox. - Organic peroxide

Met. Corr. - Substance or mixture corrosive to metals

Acute Tox. - Acute toxicity

Skin Corr. - Corrosive to the skin

Skin Irrit. - Irritating for the skin

Eye Dam. - Serious eye damage

Eye Irrit. - Irritating to eyes

Resp. Sens. - Respiratory sensitization

Skin Sens. - Skin sensitization

Muta. - Mutagenic effect on germ cells

Carc. - Carcinogenicity

Repr. - Reproductive toxicity

STOT SE - Toxic effect on target organs - single exposure

STOT RE - Toxic effects on target organs - repeated exposure

Asp. Tox. - Aspiration hazard

Aquatic Acute - Hazardous to the aquatic environment, acute hazard

Aquatic Chronic - Hazardous to the aquatic environment, chronic category

Ozone - Hazardous to the ozone layer

Lact. - Reproductive toxicity, additional category, effects on lactation or effects

NDS - The highest permissible concentration

NDSch - Maximum permissible instantaneous concentration

NDSP - The highest permissible ceiling concentration

vPvB - (Substance) Very persistent and very bioaccumulative

PBT - (Substance) Persistent, bioaccumulative and toxic

PNEC - PNEC Predicted Concentration with no effect

DN (M) EL - No effect level

LD50 - Dose at which 50% of the tested organisms die

LC50 - Concentration at which 50% of test organisms die

ECX - The concentration at which an X% reduction in growth or growth rate is observed

LOEC - The lowest concentration giving an observable effect

NOEL - The highest concentration of a substance at which no effects are observed



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RID - Regulations for the international carriage of dangerous goods by rail

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG - International Maritime Dangerous Goods Code

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

UVCB - Substances of unknown or variable composition, complex reaction products or biological materials