

Hydrocarbons, C10-C13, aromatics, <1% naphthalene

Version number: GHS 1.3

Revision: 23.08.2016

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

| | |
|---|--|
| Identification of the substance | Hydrocarbons, C10-C13, aromatics, <1% naphthalene |
| Registration number (REACH) | 01-2119451097-39-0002 |
| EC number | 922-153-0 |
| Index No | - |
| CAS number | 64742-94-5 |
| Additional relevant and available information | Hydrosol A230 ND Hydrosol A230/270 ND Hydrosol A230/290 Hydrosol A250 R |

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

| | |
|--------------------------|---|
| Relevant identified uses | Lubricants Use as binders and release agents manufacture of substances Distribution of substance Formulation & (re)packing of substances and mixtures Use in Agrochemicals Uses in Coatings Use in laboratories Use as an intermediate Polymer processing Functional Fluids Use in Cleaning Agents |
|--------------------------|---|

1.3 Details of the supplier of the safety data sheet

DHC Solvent Chemie GmbH
Timmerhellstraße 28
D-45478 Mülheim an der Ruhr
Germany

Telephone: +49 (208) 9940-0
Telefax: +49 (208) 9940-150

Competent person responsible for the safety data sheet
e-mail (competent person)

Yvonne Kemp
productsafety@dhc-solvent.de

1.4 Emergency telephone number

Emergency information service

DHC Solvent Chemie GmbH
+49 (208) 9940-112

This number is only for medical emergencies:
Giftnotrufzentrale Berlin
+49 (0)30 30686700

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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

| Hazard class | Category | Hazard class and category | Hazard statement |
|---|----------|---------------------------|------------------|
| aspiration hazard | Cat. 1 | (Asp. Tox. 1) | H304 |
| hazardous to the aquatic environment - chronic hazard | Cat. 2 | (Aquatic Chronic 2) | H411 |

Remarks

For full text of H-phrases: see SECTION 16.

Substance with a community indicative occupational exposure limit value.

Supplemental hazard information

Supplemental hazard information.

EUH066 Repeated exposure may cause skin dryness or cracking.

The most important adverse physicochemical, human health and environmental effects

May be fatal if swallowed and enters airways.

2.2 Label elements

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

Signal word

Danger

Pictograms

GHS08, GHS09



Hazard statements

H304

May be fatal if swallowed and enters airways.

H411

Toxic to aquatic life with long lasting effects.

Precautionary statements

Precautionary statements - prevention

P273

Avoid release to the environment.

Precautionary statements - response

P301+P310

IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.

P331

Do NOT induce vomiting.

P391

Collect spillage.

Precautionary statements - storage

P405

Store locked up.

Precautionary statements - disposal

P501

Dispose of contents/container to industrial combustion plant.

Additional labelling requirements

EUH066

Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

According to the results of its assessment, this substance is not a PBT or a vPvB.

Vapour heavier than air, may form an explosive mixture in air at temperatures above the flashpoint. Slip hazard by spilled and leaked out product. Flowing product can create electrostatic charge, resulting sparks may ignite or cause an explosion.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

| | |
|-----------------------------|---|
| Name of substance | Hydrocarbons, C10-C13, aromatics, <1% naphthalene |
| Registration number (REACH) | 01-2119451097-39-0002 |
| EC number | 922-153-0 |
| CAS number | 64742-94-5 |
| Index No | - |
| Purity | 100 % |

Hazardous ingredients

| Name of substance | Identifier | Wt% | Classification acc. to GHS |
|-------------------|---|-----|---|
| naphthalene | CAS No 91-20-3 EC No 202-049-5 | < 1 | Acute Tox. 4 / H302 Carc. 2 / H351 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410 |

For full text of abbreviations: see SECTION 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Irrigate copiously with clean, fresh water, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following ingestion

Do NOT induce vomiting. Rinse mouth with water (only if the person is conscious).

4.2 Most important symptoms and effects, both acute and delayed

Choking and suffocation risks. Deficits in perception and coordination, reaction time, or sleepiness.

4.3 Indication of any immediate medical attention and special treatment needed

none

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

carbon dioxide (CO₂), BC-powder, foam, alcohol resistant foam, water mist

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

May produce toxic fumes of carbon monoxide if burning.

Hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO₂)

5.3 Advice for firefighters

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance. Keep containers cool with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Avoid inhaling sprayed product. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Remove/take off immediately all contaminated clothing and wash it before reuse.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains.

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

Appropriate containment techniques

Use of adsorbent materials. - covering of drains

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use only in well-ventilated areas. Use local and general ventilation.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

Suitable materials and coatings for container/equipment: Carbon Steel, Stainless Steel, Polyester, Polytetrafluoroethylene (PTFE), Polyvinyl Alcohol (PVA)

Unsuitable Materials and Coatings for container/equipment: Butyl Rubber, Natural Rubber, Ethylene-propylene-diene monomer (EPDM), Polystyrene, Polyethylene, Polyacrylonitrile.

7.3 Specific end use(s)

See attached exposure scenarios

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Source |
|---------|---|------------|------------|-----------|--------------------------|------------|---------------------------|----------------------------------|
| DE | Hydrocarbons, C10-C13, aromatics, <1% naphthalene | 64742-94-5 | AGW | | 50 | | 50 | RCP method according to TRGS 900 |
| DE | naphthalene | 91-20-3 | AGW | 0.1 | 0.5 | 0.1 | 0.5 | TRGS 900 |
| EU | naphthalene | 91-20-3 | IOELV | 10 | 50 | | | 91/322/EEC |
| GB | aromatics | 91-20-3 | WEL | | 500 | | | EH40/2005 |
| IE | naphthalene | 91-20-3 | OELV | 10 | 50 | 15 | 75 | S.I. No. 619 of 2001 |

Notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified.

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average.

Relevant DNELs/DMELs/PNECs and other threshold levels

- human health values

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| Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|----------|-----------------------|------------------------------------|-------------------------------|----------------------------|
| DNEL | 12.5 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| DNEL | 151 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 7.5 mg/kg | human, oral | consumer (private households) | chronic - systemic effects |
| DNEL | 7.5 mg/kg | human, dermal | consumer (private households) | chronic - systemic effects |
| DNEL | 32 mg/m ³ | human, inhalatory | consumer (private households) | chronic - systemic effects |

| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|-------------------|---------|-----------|----------------------|------------------------------------|-------------------|----------------------------|
| naphthalene | 91-20-3 | DNEL | 25 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| naphthalene | 91-20-3 | DNEL | 3.57 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| naphthalene | 91-20-3 | DNEL | 25 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |

| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
|-------------------|---------|-----------|-----------------|----------------|------------------------------|------------------------------|
| naphthalene | 91-20-3 | PNEC | 2.9 mg/l | microorganisms | sewage treatment plant (STP) | short-term (single instance) |

8.2 Exposure controls

Appropriate engineering controls

Technical measures and the appliance of appropriate working methods take priority over the use of personal protective equipment.

Safety and necessary control measures vary according to exposure conditions. Appropriate measures are:

Open windows, door, to allow sufficient ventilation. If this is not possible employ a fan to increase air exchange (see attached exposure scenarios).

Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side protection.

Skin protection

• hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

Short-term contact with the skin: Disposable gloves

Long-term contact with the skin: Gloves with long cuffs

Check leak-tightness/impermeability prior to use.

• type of material

NBR: acrylonitrile-butadiene rubber, FKM: fluoro-elastomer

• material thickness

0,40 mm.

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- **breakthrough times of the glove material**

>480 minutes (permeation: level 6)

- **other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Body protection:

Suitable protective clothing: Flame resistant clothing

Suitable safety shoes: Anti static safety shoes according to EN 345 S3

Respiratory protection

For activities in enclosed areas at elevated temperatures of the substance, local extraction or explosion protected ventilation equipment is recommended. In case this is not sufficient for the intended use, then apply a suitable respiratory protection according to EN 140 type A or better (see exposure scenarios). .

Environmental exposure controls

Do not empty into drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

| | |
|----------------|---------|
| Physical state | liquid |
| Colour | clear |
| Odour | pungent |

Other physical and chemical parameters

| | |
|---|--|
| pH (value) | not determined |
| Melting point/freezing point | <-5 °C (ASTM D 5950) |
| Initial boiling point and boiling range | 200 - 310 °C at 1,013 mbar (ASTM D 86) |
| Flash point | >94 °C (ASTM D 93) |
| Explosive limits | |
| • lower explosion limit (LEL) | 0.6 vol% |
| • upper explosion limit (UEL) | 7 vol% |
| Vapour pressure | 0.002 - 0.003 kPa at 20 °C |
| Density | 0.95 - 1.05 g/cm ³ at 15 °C |
| Solubility(ies) | not determined |
| Partition coefficient | |
| n-octanol/water (log KOW) | This information is not available. |
| Auto-ignition temperature | >400 °C |
| Viscosity | |
| • kinematic viscosity | 2.7 - 5.8 mm ² /s |
| Explosive properties | |
| in use, may form flammable/explosive vapour-air mixture | |
| Oxidising properties | none |

9.2 Other information

| | |
|-----------------|---------------------------------------|
| Surface tension | 30 - 37 mN/m (25 °C) (Wilhelmy Plate) |
|-----------------|---------------------------------------|

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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure (see below "Conditions to avoid").

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

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

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge.

10.5 Incompatible materials

oxidisers

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

| Exposure route | Endpoint | Value | Species |
|--------------------|----------|----------------|---------|
| oral | LD50 | 6,318 mg/kg | rat |
| dermal | LD50 | >2,000 mg/kg | rabbit |
| inhalation: vapour | LC50 | >4,778 mg/l/4h | rat |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

Aspiration hazard

May be fatal if swallowed and enters airways.

Other information

Repeated exposure may cause skin dryness or cracking.

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity (acute)

| Endpoint | Value | Species | Exposure time |
|----------|----------|--|---------------|
| LL50 | 3.6 mg/l | rainbow trout (<i>Oncorhynchus mykiss</i>) | 96 h |
| EL50 | 3.8 mg/l | algae | 72 h |

Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment.

| Endpoint | Value | Species | Exposure time |
|----------|------------|--|---------------|
| NOELR | 0.103 mg/l | rainbow trout (<i>Oncorhynchus mykiss</i>) | 28 d |
| NOELR | 0.179 mg/l | daphnia magna | 21 d |

12.2 Persistence and degradability

The substance is readily biodegradable.

| Process | Degradation rate | Time |
|------------------|------------------|------|
| oxygen depletion | 2.44 % | 4 d |

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

12.6 Other adverse effects

Data are not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately re-conditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

List of wastes

Proposed waste code(s) for the used product:

07 01 04x Other organic solvents, washing liquids and mother liquors

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Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: TRANSPORT INFORMATION

| | | |
|-------------|----------------------------|--|
| 14.1 | UN number | 3082 |
| 14.2 | UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| | Technical name | Hydrocabons, C10-C13, aromatics, <1% naphthalene |
| 14.3 | Transport hazard class(es) | |
| | Class | 9 (miscellaneous dangerous substances and articles) |
| 14.4 | Packing group | III (substance presenting low danger) |
| 14.5 | Environmental hazards | hazardous to the aquatic environment |

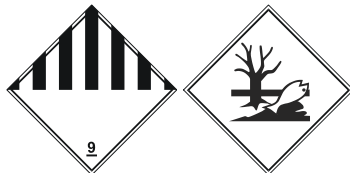
14.6 Special precautions for user
Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

| | |
|---|---|
| UN number | 3082 |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| Technical name (hazardous constituents) | Hydrocabons, C10-C13, aromatics, <1% naphthalene |
| Class | 9 |
| Classification code | M6 |
| Packing group | III |
| Danger label(s) | 9 + "fish and tree" |



| | |
|-------------------------------|--|
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Special provisions (SP) | 274, 335, 601 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 5 L |
| Transport category (TC) | 3 |
| Tunnel restriction code (TRC) | E |
| Hazard identification No | 90 |
| Emergency Action Code | 3Z |

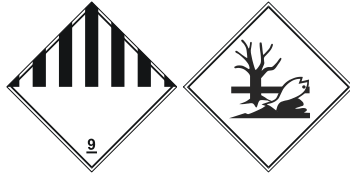
• International Maritime Dangerous Goods Code (IMDG)

| | |
|--|---|
| UN number | 3082 |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| Particulars in the shipper's declaration | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Hydrocabons, C10-C13, aromatics, <1% naphthalene), 9, III |
| Class | 9 |
| Marine pollutant | yes (hazardous to the aquatic environment) |
| Packing group | III |
| Danger label(s) | 9 + "fish and tree" |

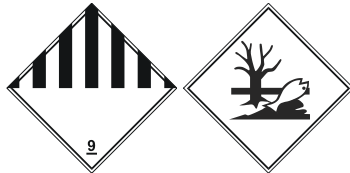
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| | |
|--|---|
| Special provisions (SP) | 274, 335 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 5 L |
| EmS | F-A, S-F |
| Stowage category | A |
| • International Civil Aviation Organization (ICAO-IATA/DGR) | |
| UN number | 3082 |
| Proper shipping name | Environmentally hazardous substance, liquid, n.o.s. |
| Class | 9 |
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Packing group | III |
| Danger label(s) | 9 + "fish and tree" |



| | |
|--------------------------|----------------|
| Special provisions (SP) | A97, A158, 274 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 30 kg |

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

• 2012/18/EU (Seveso III)

| No | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | | Notes |
|----|--|---|-----|-------|
| E2 | environmental hazards (hazardous to the aquatic environment, cat. 2) | 200 | 500 | 57) |

Notation
57) Hazardous to the Aquatic Environment in category Chronic 2.

• Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)

VOC content 100 %

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has been carried out.

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SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|----------------------|---|
| 91/322/EEC | Commission Directive on establishing indicative limit values by implementing Council Directive 80/1107/EEC |
| Acute Tox. | acute toxicity |
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road) |
| AGW | workplace exposure limit |
| Aquatic Acute | hazardous to the aquatic environment - acute hazard |
| Aquatic Chronic | hazardous to the aquatic environment - chronic hazard |
| Carc. | carcinogenicity |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| CMR | Carcinogenic, Mutagenic or toxic for Reproduction |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No-Effect Level |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| index No | the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 |
| IOELV | indicative occupational exposure limit value |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") |
| NLP | No-Longer Polymer |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| S.I. No. 619 of 2001 | Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 |

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| Abbr. | Descriptions of used abbreviations |
|----------|--|
| STEL | short-term exposure limit |
| TRGS 900 | Arbeitsplatzgrenzwerte (TRGS 900) |
| TWA | time-weighted average |
| VOC | Volatile Organic Compounds |
| vPvB | very Persistent and very Bioaccumulative |
| WEL | workplace exposure limit |

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)
- See attached exposure scenarios

http://www.dhc-solvent.de/dhc_sdbreach.html

http://www.dhc-solvent.de/en/dhc_sdbreach.html

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).
International Maritime Dangerous Goods Code (IMDG).
International Air Transport Association (IATA).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

| Code | Text |
|------|--|
| H302 | harmful if swallowed |
| H304 | may be fatal if swallowed and enters airways |
| H351 | suspected of causing cancer |
| H400 | very toxic to aquatic life |
| H410 | very toxic to aquatic life with long lasting effects |
| H411 | toxic to aquatic life with long lasting effects |