

Isoheptane

Version number: GHS 1.1

Revision: 2015-10-14

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

1.1 Product identifier

| | |
|-----------------------------------------------|------------------------------|
| Identification of the substance | Isoheptane |
| Registration number (REACH) | 01-2119457601-42-0000 |
| EC number | 250-610-8 |
| Index No | 601-008-00-2 |
| CAS number | 31394-54-4 |
| Additional relevant and available information | Iparsol 90 Iparsol 90 LCH |

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

| | |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Relevant identified uses | manufacture of substances Distribution of substance Formulation & (re)packing of substances and mixtures Use in Cleaning Agents Uses in Coatings Use in Agrochemicals |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

Yvonne Knappe

e-mail (competent person)

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 19 240.

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 |
|---------------------------------------------------------------------------------|----------|---------------------------|------------------|
| flammable liquid | Cat. 2 | (Flam. Liq. 2) | H225 |
| skin corrosion/irritation | Cat. 2 | (Skin Irrit. 2) | H315 |
| specific target organ toxicity - single exposure (narcotic effects, drowsiness) | Cat. 3 | (STOT SE 3) | H336 |
| aspiration hazard | Cat. 1 | (Asp. Tox. 1) | H304 |
| hazardous to the aquatic environment - acute hazard | Cat. 1 | (Aquatic Acute 1) | H400 |
| hazardous to the aquatic environment - chronic hazard | Cat. 1 | (Aquatic Chronic 1) | H410 |

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Remarks

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

The most important adverse physicochemical, human health and environmental effects

May be fatal if swallowed and enters airways.
The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

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

Signal word **Danger**

Pictograms

GHS02, GHS07,
GHS08, GHS09



Hazard statements

| | |
|------|-------------------------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H336 | May cause drowsiness or dizziness. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary statements

Precautionary statements - prevention

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

Precautionary statements - response

| | |
|-----------|---------------------------------------------------------------------------------|
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician. |
| P331 | Do NOT induce vomiting. |
| P370+P378 | In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish. |

Precautionary statements - storage

| | |
|-----------|------------------------------------------------------------------|
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |

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: it may be ignited at some distance away from the spill resulting in flashbacks. Flowing product can create electrostatic charge, resulting sparks may ignite or cause an explosion.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

| | |
|-----------------------------|-----------------------|
| Name of substance | Isoheptane |
| Registration number (REACH) | 01-2119457601-42-0000 |
| EC number | 250-610-8 |
| CAS number | 31394-54-4 |
| Index No | 601-008-00-2 |
| Purity | 100 % |

Hazardous ingredients

| Name of substance | Identifier | Wt% | Classification acc. to 1272/2008/EC |
|-------------------|----------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| n-hexane | CAS No 110-54-3 EC No 203-777-6 | < 3 | Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 Repr. 2 / H361f STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 |

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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. Narcotic effects. Deficits in perception and coordination, reaction time, or sleepiness.

4.3 Indication of any immediate medical attention and special treatment needed

none

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

Solvent vapours are heavier than air and may spread along floors. In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air 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.

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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 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.

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. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools.

• Warning

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not to 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

• Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

• Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

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Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

- **Ventilation requirements**

Use local and general ventilation. Ground/bond container and receiving equipment.

- **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)

Relevant DNELs/DMELs/PNECs and other threshold levels

- **human health values**

| Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|----------|-------------------------|------------------------------------|-------------------------------|----------------------------|
| DNEL | 300 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| DNEL | 2,085 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 149 mg/kg | human, oral | consumer (private households) | chronic - systemic effects |
| DNEL | 149 mg/kg | human, dermal | consumer (private households) | chronic - systemic effects |
| DNEL | 447 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 |
|-------------------|----------|-----------|----------------------|------------------------------------|-------------------|----------------------------|
| n-hexane | 110-54-3 | DNEL | 11 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| n-hexane | 110-54-3 | DNEL | 75 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |

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).

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Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggles 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.

• 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

colourless - clear

Odour

characteristic

Other physical and chemical parameters

pH (value)

not determined

Melting point/freezing point

<-20 °C (ASTM D 5950)

Initial boiling point and boiling range

86 - 93 °C at 1,013 mbar (ASTM D 1078)

Flash point

<0 °C

Explosive limits

• lower explosion limit (LEL)

1 vol%

• upper explosion limit (UEL)

6.7 vol%

Vapour pressure

8.9 kPa at 20 °C

Density

0.69 - 0.695 g/cm³ at 15 °C

Solubility(ies)

not determined

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| | |
|---------------------------------------------------------|----------------------------------------------------|
| Partition coefficient | |
| n-octanol/water (log KOW) | This information is not available. |
| Auto-ignition temperature | 200 °C |
| Viscosity | |
| • kinematic viscosity | 0.5 - 0.8 mm ² /s at 20 °C (ASTM D 445) |
| Explosive properties | |
| in use, may form flammable/explosive vapour-air mixture | |
| Oxidising properties | none |
| 9.2 Other information | |
| Surface tension | 17 - 21 mN/m (25 °C) (Wilhelmy Plate) |

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

risk of ignition

• if heated

risk of ignition

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 only non-sparking tools.

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.

May be harmful if inhaled.

| Exposure route | Endpoint | Value | Species |
|--------------------|----------|-------------------------------|---------|
| inhalation: vapour | LC50 | >29,300 mg/m ³ /4h | rat |
| dermal | LD50 | >2,000 mg/kg | rat |
| oral | LD50 | >5,000 mg/kg | rat |

Skin corrosion/irritation

Causes skin irritation.

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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)

• Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

• Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Very toxic to aquatic life.

Aquatic toxicity (acute)

| Endpoint | Value | Species | Exposure time |
|----------|------------|----------------------------------------------|---------------|
| LL50 | 18.4 mg/l | rainbow trout (<i>Oncorhynchus mykiss</i>) | 96 hours |
| EL50 | 2.4 mg/l | daphnia magna | 48 hours |
| EL50 | 8.204 mg/l | algae | 72 hours |
| fghfghg | | | |

Aquatic toxicity (chronic)

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

| Endpoint | Value | Species | Exposure time |
|----------|------------|-----------------|---------------|
| NOELR | 2.426 mg/l | (top) predators | 28 d |
| NOELR | 1 mg/l | (top) predators | 21 d |

12.2 Persistence and degradability

The substance is readily biodegradable.

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.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

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

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 | 1206 |
| 14.2 | UN proper shipping name | HEPTANES |
| 14.3 | Transport hazard class(es) | |
| | Class | 3 (flammable liquids) |
| 14.4 | Packing group | II (substance presenting medium 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 | 1206 |
| Proper shipping name | HEPTANES |
| Class | 3 |
| Classification code | F1 |
| Packing group | II |
| Danger label(s) | 3 + "fish and tree" |



| | |
|-------------------------------|--------------------------------------------|
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 1 L |
| Transport category (TC) | 2 |
| Tunnel restriction code (TRC) | D/E |
| Hazard identification No | 33 |
| Emergency Action Code | 3YE |

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• **International Maritime Dangerous Goods Code (IMDG)**

| | |
|----------------------|--------------------------------------------|
| UN number | 1206 |
| Proper shipping name | HEPTANES |
| Class | 3 |
| Marine pollutant | yes (hazardous to the aquatic environment) |
| Packing group | II |
| Danger label(s) | 3 + "fish and tree" |



| | |
|--------------------------|----------|
| Special provisions (SP) | - |
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 1 L |
| EmS | F-E, S-D |

• **International Civil Aviation Organization (ICAO-IATA/DGR)**

| | |
|-----------------------|--------------------------------------------|
| UN number | 1206 |
| Proper shipping name | Heptanes |
| Class | 3 |
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Packing group | II |
| Danger label(s) | 3 |



| | |
|--------------------------|-----|
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 1 L |

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 |
|----|----------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|-------|
| E1 | environmental hazards (hazardous to the aquatic environment, cat. 1) | 100 | 200 | 56) |

Notation

56) Hazardous to the Aquatic Environment in category Acute 1 or Chronic 1.

• **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 %

• **Directive on industrial emissions (VOCs, 2010/75/EU)**

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 |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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) |
| Aquatic Chronic | hazardous to the aquatic environment - chronic hazard |
| Asp. Tox. | aspiration hazard |
| 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 |
| 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) |
| EmS | Emergency Schedule |
| Flam. Liq. | flammable liquid |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| 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 |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| Repr. | reproductive toxicity |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| Skin Corr. | corrosive to skin |
| Skin Irrit. | irritant to skin |
| STOT RE | specific target organ toxicity - repeated exposure |
| STOT SE | specific target organ toxicity - single exposure |
| VOC | Volatile Organic Compounds |
| vPvB | very Persistent and very Bioaccumulative |

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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

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

| Code | Text |
|-------|-------------------------------------------------------------------|
| H225 | highly flammable liquid and vapour |
| H304 | may be fatal if swallowed and enters airways |
| H315 | causes skin irritation |
| H336 | may cause drowsiness or dizziness |
| H361f | suspected of damaging fertility |
| H373 | may cause damage to organs through prolonged or repeated exposure |
| 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 |