

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2021

Version number 8

Revision: 10.08.2021

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

1.1 Product identifier

- Trade name: **Duro Impregnator**
- Article number: 12047, 12048
- UFI: QS48-KQT6-R31D-N040

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

Protective impregnation

1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg

Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de

Further information obtainable from:

Laboratory

1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.
+44 (171) 635 91 91
National Poison Inform. Centre
Medical Toxicology Unit
Avalonley Road
London SE14 5ER

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.
- 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
- Hazard pictograms

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



GHS02 GHS08 GHS09

Signal word

Danger

Hazard-determining components of labelling:

2,2,4,6,6-pentamethylheptan
Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

Hazard statements

Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read carefully and follow all instructions.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 Do not breathe mist/vapours/spray.
- P273 Avoid release to the environment.

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P280 Wear protective gloves.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
 EUH066 Repeated exposure may cause skin dryness or cracking.

· Additional information:· **2.3 Other hazards**

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**· Description: Mixture: consisting of the following components.· Dangerous components:

CAS: 13475-82-6 EINECS: 236-757-0 Reg.nr.: 01-2119490725-29	2,2,4,6,6-pentamethylheptan Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 4, H413	25-50%
EC number: 923-037-2 Reg.nr.: 01-2119471991-29-xxxx	Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	25-50%
CAS: 78-10-4 EINECS: 201-083-8 Index number: 014-005-00-0 Reg.nr.: 01-2119496195-28	tetraethyl silicate Flam. Liq. 3, H226 Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	<1%
CAS: 3648-18-8 EINECS: 222-883-3 Reg.nr.: 01-2119979527-19-0000	Diocetyl tin dilaurate Repr. 1A, H360D; STOT RE 1, H372 Aquatic Chronic 3, H412	<1%

· SVHC

3648-18-8 Diocetyl tin dilaurate

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**· General information:

Take affected persons out into the fresh air.

Position and transport stably in side position.

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

· After skin contact:

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

If symptoms persist consult doctor.

· Information for doctor:

Symptoms in intoxication with (aromatic) hydrocarbons (dosis letalis about 30 g)

a) In acute intoxication: headache, dizziness, euphoria, gastro-intestinal dysfunction, state of excitement, coma.

b) In chronic intoxication: myelotoxic damage, fatigue, dizziness, emaciation, cardiac palpitation after physical exercise, leucopenia, anemia, leukosis.

Therapy in hydrocarbons intoxication: In case of inhalation provision of fresh air; in case of peroral intake administration of Carbo medicinalis; only after intubation conduct of gastrolavage in application of Carbo medicinalis; in case of cramps administration of Diazepam 20 mg intravenously.

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· **4.2 Most important symptoms and effects, both acute and delayed**

Headache
Dizziness
Dizziness
Nausea
Breathing difficulty
Coughing
Profuse sweating
Danger of impaired breathing.

· **Hazards**

· **4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed, gastric irrigation with added, activated carbon.
If swallowed or in case of vomiting, danger of entering the lungs.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, sand, extinguishing powder. Do not use water.

· **For safety reasons unsuitable extinguishing agents:**

Water
Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide (CO)
Under certain fire conditions, traces of other toxic gases cannot be excluded.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
Wear fully protective suit.

· **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation
Keep away from ignition sources.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

· **6.4 Reference to other sections**

Do not flush with water or aqueous cleansing agents
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Keep receptacles tightly sealed.
 Store in cool, dry place in tightly closed receptacles.
 Keep away from heat and direct sunlight.
 Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
 Use only in well ventilated areas.
 Ensure good ventilation/exhaustion at the workplace.
 Prevent formation of aerosols.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.
 Prevent any seepage into the ground.

Information about storage in one common storage facility:

Store away from oxidising agents.
 Store away from foodstuffs.

Further information about storage conditions:

Store receptacle in a well ventilated area.
 Store in a cool place.
 Protect from frost.
 Keep container tightly sealed.

Storage class:

3

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Additional information about design of technical facilities:**

No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:**78-10-4 tetraethyl silicate**WEL Long-term value: 44 mg/m³, 5 ppm**DNELs****78-10-4 tetraethyl silicate**

Dermal	DNEL (Kurzzeit-akut)	12.1 mg/kg bw/day (ARB) 8.4 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	12.1 mg/kg bw/day (ARB) 8.4 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	85 mg/m ³ Air (ARB) 25 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	85 mg/m ³ Air (ARB) 25 mg/m ³ Air (BEV)

3648-18-8 Dioctyltin dilaurate

Oral	DNEL (Langzeit-wiederholt)	0.0005 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	0.0035 mg/m ³ Air (ARB)

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	0.0009 mg/m ³ Air (BEV)
· PNECs	
78-10-4 tetraethyl silicate	
PNEC (wässrig)	4,000 mg/l (KA) 0.0192 mg/l (MW) 0.192 mg/l (SW) 10 mg/l (WAS)
PNEC (fest)	0.05 mg/kg Trockengew (BO) 0.018-0.083 mg/kg Trockengew (MWS) 0.18-0.83 mg/kg Trockengew (SWS)
3648-18-8 Dioctyltin dilaurate	
PNEC (wässrig)	100 mg/l (KA) 0.0000018 mg/l (MW) 0.0000018 mg/l (SW)
PNEC (fest)	0.005593 mg/kg Trockengew (BO) 0.02798 mg/kg Trockengew (MWS) 0.02798 mg/kg Trockengew (SWS)

· Additional information:

The lists valid during the making were used as basis.

· **8.2 Exposure controls**· Personal protective equipment:· General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.

Apply solvent resistant skin cream before starting work.

Use skin protection cream for skin protection.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

· Respiratory protection:

Filter AX

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

· Protection of hands:

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Skin protection agent recommendation for preventive skin shelter without use of protective gloves:

STOKODERM (<http://www.stoko.com>)

Skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:

STOKO EMULSION (<http://www.stoko.com>)

Skin protection recommendation for skin cleaning after product handling:

FRAPANTOL (<http://www.stoko.com>)

Skin protection agent recommendation for skin aftercare:

STOKO VITAN (<http://www.stoko.com>)

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).

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- 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)
Nitrile rubber, NBR
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
Value for the permeation: Level ≤ 6 ; 480 min
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
 - For the permanent contact gloves made of the following materials are suitable:
Fluorocarbon rubber (Viton)
Vitoject (KCL, Art_No. 890)
Nitrile rubber, NBR
Camatril (KCL, Art_No. 730, 731, 732, 733)
 - As protection from splashes gloves made of the following materials are suitable:
Fluorocarbon rubber (Viton)
Vitoject (KCL, Art_No. 890)
Nitrile rubber, NBR
Camatril (KCL, 730, 731, 732, 733)
 - Not suitable are gloves made of the following materials:
Natural rubber, NR
Rubber gloves
Leather gloves
Strong material gloves
Neoprene gloves
 - Eye protection:
 Tightly sealed goggles
 - Body protection:
Protective work clothing

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

Form:	Fluid
Colour:	Colourless
Odour:	Specific type
Odour threshold:	Not determined.

· pH-value: Not applicable

· Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	173 °C

· Flash point: 43 °C

· Flammability (solid, gas): Not applicable.

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· <u>Decomposition temperature:</u>	Not determined.
· <u>Auto-ignition temperature:</u>	Product is not selfigniting.
· <u>Explosive properties:</u>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <u>Explosion limits:</u>	
<u>Lower:</u>	Not determined.
<u>Upper:</u>	Not determined.
· <u>Vapour pressure:</u>	Not determined.
· <u>Density at 20 °C:</u>	0.76 g/cm ³
· <u>Relative density</u>	Not determined.
· <u>Vapour density</u>	Not determined.
· <u>Evaporation rate</u>	Not determined.
· <u>Solubility in / Miscibility with water:</u>	Not miscible or difficult to mix.
· <u>Partition coefficient: n-octanol/water:</u>	Not determined.
· <u>Viscosity:</u>	
<u>Dynamic:</u>	Not determined.
<u>Kinematic:</u>	Not determined.
· <u>Solvent content:</u>	
<u>Organic solvents:</u>	91.7 %
· 9.2 Other information	No further relevant information available.

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** Reacts with strong oxidising agents.
Forms flammable gases/fumes.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

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 relevant for classification:**13475-82-6 2,2,4,6,6-pentamethylheptan**

Oral	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/8h	>5 ppm (rat)

Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics

Oral	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/8h	>5 mg/l (rat)

78-10-4 tetraethyl silicate

Oral	LD50	>2,500 mg/kg (rat)
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Inhalative	NOAEL	10 mg/kg (rat)
	LC50/4 h	10-16.8 mg/l (rat)
3648-18-8 Dioctyltin dilaurate		
Oral	LD50	6,450 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:
- 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:

13475-82-6 2,2,4,6,6-pentamethylheptan

IC50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata)
EC50/48h	>1,000 mg/l (daphnia magna)
LC50/96h	>1,000 mg/l (Oncorhynchus mykiss)

Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics

EL0/48h	1,000 mg/l (daphnia magna)
EL0/72h	1,000 mg/l (Pseudokirchneriella subcapitata)
LL0/96h	1,000 mg/l (Oncorhynchus mykiss)
NOELR/72h	1,000 mg/l (Pseudokirchneriella subcapitata)
NOELR/21d	<1 mg/l (daphnia magna)

78-10-4 tetraethyl silicate

EC50	>100 mg/l (Klärschlamm: Atmungs-/Vermehrungshemmung)
EC50/48h	>75 mg/l (daphnia magna)
EC50/72h	>100 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	>245 mg/l (Danio rerio.)

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

- Ecotoxicological effects:

- Remark:

Toxic for fish

- Additional ecological information:

- General notes:

Toxic for aquatic organisms
Do not allow product to reach ground water, water course or sewage system.
Also poisonous for fish and plankton in water bodies.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

12.5 Results of PBT and vPvB assessment

- PBT:

Not applicable.

- vPvB:

Not applicable.

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· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations· **13.1 Waste treatment methods**

- Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- Recommendation: Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
- Recommended cleansing agents: Alcohol

SECTION 14: Transport information

· **14.1 UN-Number**
 · ADR, IMDG, IATA

UN3295

· **14.2 UN proper shipping name**
 · ADR

3295 HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics, 2,2,4,6,6-pentamethylheptan), ENVIRONMENTALLY HAZARDOUS

· IMDG

HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics, 2,2,4,6,6-pentamethylheptan), MARINE POLLUTANT

· IATA

HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics, 2,2,4,6,6-pentamethylheptan)

· **14.3 Transport hazard class(es)**· ADR

· Class
 · Label

3 (F1) Flammable liquids.
 3

· IMDG

· Class
 · Label

3 Flammable liquids.
 3

· IATA

· Class
 · Label

3 Flammable liquids.
 3

· **14.4 Packing group**
 · ADR, IMDG, IATA

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· 14.5 Environmental hazards: · <u>Marine pollutant:</u> · <u>Special marking (ADR):</u>	Product contains environmentally hazardous substances: Yes Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · <u>Hazard identification number (Kemler code):</u> · <u>EMS Number:</u> · <u>Stowage Category</u>	Warning: Flammable liquids. 30 F-E,S-D A
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· <u>Transport/Additional information:</u>	
· <u>ADR</u> · <u>Excepted quantities (EQ)</u>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <u>IMDG</u> · <u>Limited quantities (LQ)</u> · <u>Excepted quantities (EQ)</u>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <u>UN "Model Regulation":</u>	UN 3295 HYDROCARBONS, LIQUID, N.O.S. (HYDROCARBONS, C10-C12, ISOALKANES, <2% AROMATICS, 2,2,4,6,6-PENTAMETHYLHEPTAN), 3, III, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I
- Seveso category
- Qualifying quantity (tonnes) for the application of lower-tier requirements
- Qualifying quantity (tonnes) for the application of upper-tier requirements
- National regulations:
- Information about limitation of use:
- Waterhazard class:

None of the ingredients is listed.

E2 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS

200 t

500 t

Employment restrictions concerning pregnant and lactating women must be observed.

Employment restrictions concerning juveniles must be observed.

Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

3648-18-8 Diocetyl tin dilaurate

· VOC EU 696.7 g/l

· 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H226 Flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H360D May damage the unborn child.
 H372 Causes damage to organs through prolonged or repeated exposure.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.
 H413 May cause long lasting harmful effects to aquatic life.
 refer to Technical Data Sheet (TDS)

· Recommended restriction of use· Department issuing SDS:

Laboratory

· Contact:

Dieter Zimmermann

· 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)
 ICAO: International Civil Aviation Organisation
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 Flam. Liq. 3: Flammable liquids – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Repr. 1A: Reproductive toxicity – Category 1A
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
 Asp. Tox. 1: Aspiration hazard – Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

· * Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC