

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 21.12.2022

Version number 6 (replaces version 5)

Revision: 21.12.2022

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

1.1 Product identifier

Trade name: **Akelux Cleaner**

Article number: 62014

Registration number: 01-2119457610-43

UFI: GYG4-50U4-K000-23A9

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

No further relevant information available.

Application of the substance / the mixture

Cleaning agent/ Cleaner

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.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

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 GHS07

Signal word

Danger

Hazard-determining components of labelling:

Not applicable.

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

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.

P243 Take action to prevent static discharges.

P280 Wear protective gloves / eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P403+P235
P501Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/
regional/national/international regulations.**· 2.3 Other hazards**

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Determination of endocrine-disrupting properties

78-93-3 butanone

List II

SECTION 3: Composition/information on ingredients**· 3.2 Mixtures**

· Description: Cleansing agent

· Dangerous components:

CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43	ethanol	Flam. Liq. 2, H225 Eye Irrit. 2, H319	50-100%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol	Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	1-5%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43	butanone	Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	1-5%

SECTION 4: First aid measures**· 4.1 Description of first aid measures**

· General information: Take affected persons out into the fresh air.
Immediately remove any clothing soiled by the product.

· After inhalation: Take affected persons into fresh air and keep quiet.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing: If symptoms persist consult doctor.

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

Breathing difficulty
Headache
Dizziness
Dizziness
Nausea
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.

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SECTION 5: Firefighting measures**· 5.1 Extinguishing media**

· Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents:

Water with full jet

· 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:
Carbon monoxide (CO)

· 5.3 Advice for firefighters

· Protective equipment:

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

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.
Prevent seepage into sewage system, workpits and cellars.
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).

Ensure adequate ventilation.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
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).
Ensure good ventilation/exhaustion at the workplace.

· 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.
Store in a cool location.

· Information about storage in one common storage facility:

Store away from foodstuffs.

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· Further information about storage conditions:

Protect from frost.
Store receptacle in a well ventilated area.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

· Storage class:

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· **7.3 Specific end use(s)**

No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

78-93-3 butanone

IOELV	Short-term value: 900 mg/m ³ , 300 ppm
	Long-term value: 600 mg/m ³ , 200 ppm

· DNELs

64-17-5 ethanol

Oral	DNEL (Langzeit-wiederholt)	87 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	950 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	343 mg/kg bw/day (ARB)
Inhalative		206 mg/kg bw/day (BEV)
	DNEL (Kurzzeit-akut)	1,900 mg/m ³ Air (ARB)
		950 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	950 mg/m ³ Air (ARB)
		114 mg/m ³ Air (BEV)

67-63-0 propan-2-ol

Oral	DNEL (Langzeit-wiederholt)	26 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	888 mg/kg bw/day (ARB)
		319 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	500 mg/m ³ Air (ARB)
		89 mg/m ³ Air (BEV)

78-93-3 butanone

Oral	DNEL (Langzeit-wiederholt)	31 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	1,161 mg/kg bw/day (ARB)
		412 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	600 mg/m ³ Air (ARB)
		106 mg/m ³ Air (BEV)

· PNECs

64-17-5 ethanol

PNEC (wässrig)	580 mg/l (KA)
	0.79 mg/l (MW)
	0.96 mg/l (SW)
	2.75 mg/l (WAS)
PNEC (fest)	0.63 mg/kg Trockengew (BO)
	0.72 mg/kg Trockengew (FUT)
	2.9 mg/kg Trockengew (MWS)
	3.6 mg/kg Trockengew (SWS)

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PNEC (wässrig)	2,251 mg/l (KA)
	140.9 mg/l (MW)
	140.9 mg/l (SW)
	140.9 mg/l (WAS)
PNEC (fest)	28 mg/kg Trockengew (BO)
	552 mg/kg Trockengew (MWS)
	552 mg/kg Trockengew (SWS)

78-93-3 butanone

PNEC (wässrig)	709 mg/l (KA)
	55.8 mg/l (MW)
	55.8 mg/l (SW)
	55.8 mg/l (WAS)
PNEC (fest)	22.5 mg/kg Trockengew (BO)
	284.7 mg/kg Trockengew (MWS)
	284.74 mg/kg Trockengew (SWS)

· Additional information: The lists valid during the making were used as basis.

· **8.2 Exposure controls**

- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Avoid close or long term contact with the skin.
 Use skin protection cream for skin protection.
 Do not eat, drink, smoke or sniff while working.
 Apply solvent resistant skin cream before starting work.
 Clean skin thoroughly immediately after handling the product.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.

- Respiratory protection: Use suitable respiratory protective device when high concentrations are present.
 Short term filter device:

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.
 Preventive skin protection by use of skin-protecting agents is recommended.
 After use of gloves apply skin-cleaning agents and skin cosmetics.

- Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.75 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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- Penetration time of glove material The exact break trough 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: Nitrile rubber, NBR
- As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR
- Not suitable are gloves made of the following materials: Natural rubber, NR
Leather gloves
Strong material gloves
- Eye/face 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
- Colour: Colourless
- Odour: Alcohol-like
- Melting point/freezing point: -114.5 °C
- Boiling point or initial boiling point and boiling range 78 °C
- Lower and upper explosion limit
- Lower: 3.5 Vol %
- Upper: 15 Vol %
- Flash point: 13 °C
- Ignition temperature: 425 °C
- pH Not determined.
- Viscosity:
- Kinematic viscosity at 20 °C 8 s (DIN 53211/4)
- Dynamic: Not determined.
- Solubility
- water at 20 °C: 1 g/l
- Partition coefficient n-octanol/water (log value) Not determined.
- Vapour pressure at 20 °C: 59 hPa
- Density and/or relative density
- Density at 20 °C: 0.79 g/cm³

9.2 Other information

- Appearance:
- Form: Fluid
- Important information on protection of health and environment, and on safety.
- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Solvent separation test: < 3 %
- Solvent content:
- Organic solvents: 99.9 %
- Solids content: 0.1 %
- Molecular weight 46 g/mol

Information with regard to physical hazard classes

- Explosives Void
- Flammable gases Void

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- | | |
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| · <u>Aerosols</u> | Void |
| · <u>Oxidising gases</u> | Void |
| · <u>Gases under pressure</u> | Void |
| · <u>Flammable liquids</u> | Highly flammable liquid and vapour. |
| · <u>Flammable solids</u> | Void |
| · <u>Self-reactive substances and mixtures</u> | Void |
| · <u>Pyrophoric liquids</u> | Void |
| · <u>Pyrophoric solids</u> | Void |
| · <u>Self-heating substances and mixtures</u> | Void |
| · <u>Substances and mixtures, which emit flammable gases in contact with water</u> | Void |
| · <u>Oxidising liquids</u> | Void |
| · <u>Oxidising solids</u> | Void |
| · <u>Organic peroxides</u> | Void |
| · <u>Corrosive to metals</u> | Void |
| · <u>Desensitised explosives</u> | Void |

SECTION 10: Stability and reactivity

- | | |
|--|---|
| · 10.1 Reactivity | No further relevant information available. |
| · 10.2 Chemical stability | |
| · <u>Thermal decomposition / conditions to be avoided:</u> | No decomposition if used according to specifications. |
| · 10.3 Possibility of hazardous reactions | Strong exothermic reaction with acids.
Violent reaction with concentrated alkali and oxidising agents. |
| · 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
Aldehyde |

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:**64-17-5 ethanol**

Oral	LD50	10,470 mg/kg (rat) (OECD 401)
	NOAEL-Werte	>3,000 mg/kg (rat) (OECD 451)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4h	20,000 mg/m3 (rat)
	LC50/4 h	120 mg/l (rat) (OECD 403)
	LC50/48h	5,012 mg/l (ceriodaphnia Dubai)
		12,340 mg/l (daphnia magna)
		8,150 mg/l (Leuciscus idus)

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Oral	LD50	>2,000 mg/kg (rabbit)
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	NOAEL-Werte	5,840 mg/kg (rat) (OECD 401)
Dermal	LD50	400 mg/kg (rat)
Inhalative	LD50	13,900 mg/kg (rabbit) (OECD 402)
	LC50/8h	47.5 ppm (rat)
	LC50/4 h	>25 mg/l (rat)
	LC50	25,000 mg/m ³ (rat)
	LC50/48h	>100 mg/l (Leuciscus idus)

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Oral	LD50	>2,193 mg/kg (rat) (OECD 423)
Dermal	LD50	>8,000 mg/kg (cuniculosus)
		>5,000 mg/kg (rbt) (OECD 402)
Inhalative	LC50/4 h	34 mg/l (rat)
	LC50/8h	23.5 mg/l (rat)
	LC50/48h	308 mg/l (daphnia magna)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- 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 Based on available data, the classification criteria are not met.

11.2 Information on other hazards

- Endocrine disrupting properties

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List II

SECTION 12: Ecological information**12.1 Toxicity**

- Aquatic toxicity:

64-17-5 ethanol

LC50/24h	11,200 mg/l (Salmo gairdneri)
EC50/48h	9,268-14,221 mg/l (daphnia magna)
	12,900 mg/l (Selenastrum capricornutum) (OECD 201)
EC0	6,500 mg/l (pseudomonas putida)
	5,000 mg/l (scenedesmus quadricauda)
EC10	11.5 mg/l (CHV)
EC50/72h	275 mg/l (CHV) (OECD 201)
LC50/96h	13,000 mg/l (Oncorhynchus mykiss) (OECD 203)
	15,300 mg/l (pimephales promelas)
	11,200 mg/l (Salmo gairdneri) (US EPA method E03-05)

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EC50/24h	9,714 mg/l (daphnia magna)
EC50	>1,000 mg/l (BES)
LC50/24h	9,714 mg/l (daphnia magna)
EC50/15min	22,000 mg/l (Photobac. phosphoreum)

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IC50/72h	>1,000 mg/l (Desmodesmus subspicatus)
EC10/18h	5,175 mg/l (pseudomonas putida) (DIN 38412)
EC50/48h	9,714 mg/l (daphnia magna) (OECD 202)
EC50/72h	>1,000 mg/l (green alge)
	>100 mg/l (Scenedesmus subspicatus)
LC50/96h	6,550 mg/l (piscis)
	9,640 mg/l (Pimephales promelas)

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EC5	1,150 mg/l (pseudomonas putida)
EC0	1,150 mg/l (pseudomonas putida) (DIN 38412)
IC5/7d	>4,300 mg/l (scenedesmus quadricauda)
EC50/48h	5,091 mg/l (daphnia magna) (OECD 202)
EC50/72h	1,972 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
LC50/96h	3,220 mg/l (lem)
	2,993 mg/l (pimephales promelas) (OECD 203)

· **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.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:**

Not applicable.

· **vPvB:**

Not applicable.

· **12.6 Endocrine disrupting properties**

For information on endocrine disrupting properties see section 11.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

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.

· **European waste catalogue**

14 00 00	WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08)
14 06 00	waste organic solvents, refrigerants and foam/aerosol propellants
14 06 03*	other solvents and solvent mixtures
20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
20 01 29*	detergents containing hazardous substances

· **Uncleaned packaging:**

· **Recommendation:**

Disposal must be made according to official regulations.

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SECTION 14: Transport information· **14.1 UN number or ID number**· ADR, IMDG, IATA UN1170· **14.2 UN proper shipping name**

· ADR 1170 ETHANOL (ETHYL ALCOHOL)
 · IMDG ETHANOL (ETHYL ALCOHOL)
 · IATA ETHANOL

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

· Class 3 (F1) Flammable liquids.
 · Label 3

· IMDG, IATA

· Class 3 Flammable liquids.
 · Label 3

· **14.4 Packing group**· ADR, IMDG, IATA II· **14.5 Environmental hazards:**· Marine pollutant: No· **14.6 Special precautions for user**

Warning: Flammable liquids.
 · Hazard identification number (Kemler code): 33
 · EMS Number: F-E, S-D
 · Stowage Category A

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· Transport/Additional information:· ADR

· Limited quantities (LQ)
 · Excepted quantities (EQ)

1L
 Code: E2
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml

· Transport category
 · Tunnel restriction code

2
 D/E

· IMDG

· Limited quantities (LQ)
 · Excepted quantities (EQ)

1L
 Code: E2
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 1170 ETHANOL (ETHYL ALCOHOL), 3, II

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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 None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

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· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

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· National regulations:

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

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

None of the ingredients is listed.

· VOC EU 789.2 g/l

· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

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.

· Department issuing SDS: Laboratory
 · Contact: Elke Hake
 Fon ++49 (0)911 64296-59
 @mail E.Hake@akemi.de
 21.12.2022

· Date of previous version:
 · Version number of previous version: 5
 · 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)
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

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ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
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. 2: Flammable liquids – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

EU