

SAFETY DATA SHEET ACCORDING TO REGULATION (EC) 1907/2006

Product name: ws/el

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

1.1 Product identifier

Product name

ws/el

Product code

[vssl9682]



<https://my.chemius.net/p/MUBCHt/en/pd/en>

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

Relevant identified uses

No information.

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Supplier

AKB Longs B.V.

Energieweg 50

2382NN Zoeterwoude, The Netherlands

+31715765200

1.4 Emergency Telephone Number

Emergency

112

Supplier

+31715765200

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Eye Dam. 1; H318 Causes serious eye damage.

2.2 Label elements

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



Signal word: DANGER

H318 Causes serious eye damage.
P280 Wear protective gloves/protective clothing/eye protection/face 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.
P310 Immediately call a POISON CENTER or doctor/physician.

Contains:
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts

2.3 Other hazards

PBT/vPvB
No information.

Endocrine disrupting properties
The product does not contain substances with the potential for endocrine disorders.

Additional information
No information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

For mixtures see 3.2.

3.2 Mixtures

Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8 287-809-4 -	2.5-5	Skin Irrit. 2; H315 Eye Dam. 1; H318	/	/
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	68891-38-3 500-234-8 -	1-2.5	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	Eye Dam. 1; H318; C ≥ 10% Eye Irrit. 2; H319; 5% ≤ C < 10%	/

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes
Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used. Wash contaminated clothing with water before removing or use gloves.

Following inhalation
Remove patient to fresh air - move out of dangerous area. In case of unconsciousness bring patient into stable side position and seek medical attention. If breathing is irregular or respiratory arrest occurs provide artificial respiration. Keep at rest in a position comfortable for breathing. Seek medical help immediately.

Following skin contact
Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. Immediately obtain professional medical help!

Following eye contact
Immediately flush eyes with running water, keeping eyelids apart. After 5 minutes of rinsing, remove contact lenses, if

present, and continue rinsing. Consult a physician immediately!

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Immediately consult a doctor. Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

Following skin contact

Skin burns: Signs/symptoms may include localised redness, swelling, itching, dryness, blistering.

Following eye contact

Redness, pain, burning sensation, tearing, can cause permanent damage to the eyes.

Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. If ingested, may cause burns of the mouth and throat, as well as perforation of the esophagus and stomach.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3 Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

Additional information

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

No information.

Precautionary measures

Ensure adequate ventilation.

Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders

Use personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises. Clean contaminated area with plenty of water.

Other information

No information.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Ensure adequate ventilation.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

Other measures

No information.

Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Keep away from food, drink and animal feeding stuffs.

Packaging materials

Store only in original container.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage temperature

No information.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

No information.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

No information.

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

Name	Type	Exposure route	exp. frequency	Remark	value
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Worker	inhalation	long term systemic effects	/	285 mg/m ³
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Worker	dermal	long term systemic effects	/	4060 mg/kg bw/day
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Consumer	inhalation	long term systemic effects	/	85 mg/m ³
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Consumer	dermal	long term systemic effects	/	2440 mg/kg bw/day
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Consumer	oral	long term systemic effects	/	24 mg/kg bw/day
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	Worker	inhalation	long term systemic effects	/	175 mg/m ³
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	Worker	dermal	long term systemic effects	/	2750 mg/kg bw/day
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	Worker	dermal	long term local effects	/	132 µg/cm ²
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	Consumer	inhalation	long term systemic effects	/	52 mg/m ³

alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	Consumer	dermal	long term systemic effects	/	1650 mg/kg bw/day
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	Consumer	dermal	long term local effects	/	79 µg/cm ²
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	Consumer	oral	long term systemic effects	/	15 mg/kg bw/day

PNEC values

For product

No information.

For components

Name	Exposure route	Remark	value
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	fresh water	/	0.131 mg/L
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	water, intermittent release	/	0.036 mg/L
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	marine water	/	0.013 mg/L
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	water treatment plant	/	1.35 mg/L
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	fresh water sediment	dry weight	4.61 mg/kg
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	marine water sediment	dry weight	0.461 mg/kg
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	soil	dry weight	0.846 mg/kg
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	fresh water	/	0.24 mg/L
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	water, intermittent release	/	0.071 mg/L
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	marine water	/	0.024 mg/L
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	water treatment plant	/	10 g/L
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	fresh water sediment	dry weight	0.917 mg/kg
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	marine water sediment	dry weight	0.092 mg/kg
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	soil	dry weight	7.5 mg/kg

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse. Keep eyewash bottles or personal eyewash units and emergency showers available.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment

Eye and face protection

Wear tight fitting protective goggles and/or face protection (EN 166).

Hand protection

Protective gloves (EN ISO 374-1:2016). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. 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. The penetration time is determined by the protective glove manufacturer and must be observed.

Appropriate materials

Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345:2022). At high risk of skin exposure chemical suits (EN 13034:2005+A1:2009) and boots may be required (EN ISO 20345:2022).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard BS EN 137, BS EN 138.

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Important health, safety and environmental information

Physical state	liquid
Shape	No information.
Colour	white
Odour	characteristic
Odour threshold	No data available
Melting/freezing point	Melting point not applicable to liquids, freezing point is considered not relevant as the product is not expected to freeze in consumer use conditions.
Boiling point or initial boiling point and boiling range	Boiling point is considered not relevant as the product is not expected to boil in consumer use conditions.
Flammability (solid, gas)	Not flammable.
Explosion limits (vol%)	no data available
Flash point	Not flammable.
Auto-ignition temperature	Not self-igniting.
Decomposition temperature	The substance or mixture is not classified as self-reactive. > 75 ° C SADT (UN Test H.2)

pH	No information.
Viscosity	No information.
Solubility (Water)	miscible
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	no data available
Density / weight	No information.
Relative vapour density	no data available
Particle characteristics	No information.

9.2 Other information

Information with regard to physical hazard classes

No information.

Other safety characteristics

Evaporation rate	no data available
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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

No information.

10.4 Conditions to avoid

No information.

10.5 Incompatible materials

No information.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	value	Method	Remark
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	oral	LD ₅₀	rat	/	2000 mg/kg	EU B.1	/
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	dermal	LD ₅₀	rat	/	> 2000 mg/kg	/	/
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	oral	LD ₅₀	rat	/	> 2870 mg/kg	/	/

Additional information

The product is not classified as acutely toxic.

(b) Skin corrosion/irritation**For components**

Name	Species	Time	result	Method	Remark
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	rabbit	/	Irritating to skin.	/	/

(c) Serious eye damage/irritation**For components**

Name	Exposure route	Species	Time	result	Method	Remark
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	/	rabbit	/	Severe irritation.	/	/

Additional information

Causes serious eye damage.

(d) Respiratory or skin sensitisation**For components**

Name	Exposure route	Species	Time	result	Method	Remark
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	dermal	guinea pig	/	Non sensitising.	/	maximisation test
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	dermal	guinea pig	/	Non sensitising.	/	/

Additional information

The product is not classified as sensitising.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

No information.

Additional information

STOT SE (single exposure): Not classified.

(i) STOT-repeated exposure

No information.

Additional information
STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard
No information.

Additional information
Aspiration hazard: Not classified.

Symptoms related to the physical, chemical and toxicological characteristics
No information.

Interactive effects
No information.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Other information

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity
For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	LC ₅₀	3.6 mg/L	96 h	fish	/	/	/
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	LC ₅₀	7.1 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	EC ₅₀	7.4 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	EC ₅₀	27.7 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	/	/

Chronic (long-term) toxicity
For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	NOEC	0.2 mg/l	/	fish	<i>Oncorhynchus mykiss</i>	/	/
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	NOEC	0.27 mg/l	/	crustacea	<i>Daphnia magna</i>	/	/

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	biodegradability	68 %	28 days	readily biodegradable	OECD 301 F	/

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

For components

Name	value	Temperature °C	pH	Concentration	Method
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	0.3	/	/	/	/
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	/	/	/	/	/

Bioconcentration factor (BCF)

For components

Name	Species	organism	value	Duration	Evaluation	Method	Remark
alcohols, C12-14 (even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	BCF	/	< 500	/	/	/	/

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

No information.

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

12.7 Other adverse effects

No information.

12.8 Additional information

For product
Product is not classified as dangerous for environment. Do not allow to reach ground water, water courses or sewage system.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Product / Packaging disposal
Waste chemical
Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.
Waste codes / waste designations according to LoW
No information.
Packaging
Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents.
Waste codes / waste designations according to LoW
No information.
Waste treatment-relevant information
No information.
Sewage disposal-relevant information
No information.
Other disposal recommendations
No information.

SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.
14.2 UN proper shipping name			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.3 Transport hazard class(es)			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.4 Packing group			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities Not given/not applicable	Limited quantities Not given/not applicable		Limited quantities Not given/not applicable
14.7 Maritime transport in bulk according to IMO instruments			
	Not given/not applicable		

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
not applicable

Ingredients according to Regulation (EC) No 648/2004 on detergents
No information.

Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Indication of changes

No information.

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate
 ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
 ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 CEN - European Committee for Standardisation
 C&L - Classification and Labelling
 CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
 CAS# - Chemical Abstracts Service number
 CMR - Carcinogen, Mutagen, or Reproductive Toxicant
 CSA - Chemical Safety Assessment
 CSR - Chemical Safety Report
 DMEL - Derived Minimal Effect Level
 DNEL - Derived No Effect Level
 DPD - Dangerous Preparations Directive 1999/45/EC
 DSD - Dangerous Substances Directive 67/548/EEC
 DU - Downstream User
 EC - European Community
 ECHA - European Chemicals Agency
 EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
 EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
 EEC - European Economic Community
 EINECS - European Inventory of Existing Commercial Substances
 ELINCS - European List of notified Chemical Substances
 EN - European Standard
 EQS - Environmental Quality Standard
 EU - European Union
 Euphrac - European Phrase Catalogue
 EWC - European Waste Catalogue (replaced by LoW – see below)
 GES - Generic Exposure Scenario

GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.