

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Beta Glucan

Creation date: 03.03.2026, Revision: 03.03.2026, Version: 1.0

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

1.1 Product identifier

Product name

Beta Glucan

Product code

[AL00379]

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

Relevant identified uses

Raw material for cosmetic products.

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Supplier/Distributor

Farmadria DOO
Heroja Pinkija 44
26300 Vršac, Serbia
+381695565029
info@avenalab.com

1.4 Emergency Telephone Number

Emergency

112

Supplier/Distributor

+381695565029

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Eye Irrit. 2; H319 Causes serious eye irritation.

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2.2 Label elements

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



Signal word: WARNING

Hazard statements:

H319 Causes serious eye irritation.

Supplemental hazard information (EU):

Not applicable.

Precautionary statements:

Not applicable.

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

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
water	7732-18-5 231-791-2 -	75-85	/	/	/
glycerin	56-81-5 200-289-5 -	10-20	/	/	/
1,2-Hexanediol	6920-22-5 230-029-6 -	1.5-2.5	Eye Irrit. 2; H319	/	/
Pentylene Glycol	5343-92-0 226-285-3 -	0.5-1.5	/	/	/
2- phenoxyethan ol	122-99-6 204-589-7 603-098-00-9	0.7-0.9	Acute Tox. 4; H302 Eye Dam. 1; H318 STOT SE 3; H335	oral: ATE = 1394 mg/kg bw	/
Xanthan gum	11138-66-2 234-394-2 -	0.1-1	/	/	/
Beta-glucan	1439905-58-4 258-443-2, 3 -	0.4 - 0.6	/	/	/
Ethylhexyl Glycerine	70445-33-9 408-080-2 -	0.1-0.2	Eye Dam. 1; H318 Aquatic Chronic 3; H412	/	/

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4.1 Description of first aid measures

General notes

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms develop and persist, seek medical attention.

Following skin contact

Wash affected skin areas immediately with plenty of water and soap. If symptoms develop and persist, seek medical attention.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. In case of doubt or if feeling unwell seek medical help. 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

Contact with skin may cause irritation (redness, itching).

Following eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

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Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

No information.

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. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders

Use personal protective equipment.

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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. 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.

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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

No information.

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

Name	mg/m ³	ml/m ³	Short-term value mg/m ³	Short-term value ml/m ³	Remark	Biological Tolerance Values
Glycerol, mist (56-81-5)	10	/	/	/	/	/

Information on monitoring procedures

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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
1,2-Hexanediol	Worker	inhalation	long term systemic effects	/	123 mg/m ³
1,2-Hexanediol	Worker	dermal	long term systemic effects	/	17.5 mg/kg bw/day
1,2-Hexanediol	Consumer	inhalation	long term systemic effects	/	30 mg/m ³
1,2-Hexanediol	Consumer	dermal	long term systemic effects	/	8.8 mg/kg bw/day
1,2-Hexanediol	Consumer	oral	long term systemic effects	/	8.8 mg/kg bw/day

PNEC values

For product

No information.

For components

No information.

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

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Use good personal hygiene practices – wash hands at breaks and when done working with material. 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

No information.

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

No requirements under normal use conditions. If there is risk of splashing into eyes, wear safety glasses with side shields (BS EN ISO 16321-1:2022/A1:2025).

Hand protection

No requirements under normal use conditions. In case of prolonged exposure, wear protective gloves (BS EN ISO 374).

Appropriate materials

No information.

Skin protection

No requirements under normal use conditions. With excessive exposure wear protective working clothing (overalls and boots). Cotton protective clothing and shoes that cover the entire foot (BS EN ISO 20345:2022).

Respiratory protection

Not needed under normal use and adequate ventilation.

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

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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	opalescent milky
Odour	Characteristic slight odor
Odour threshold	No information.
Melting/freezing point or softening point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	> 121 °C
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	6.2 — 8.2
Viscosity	No information.
Solubility (Water)	soluble
Solubility (Organic solvent)	soluble
Partition coefficient n-octanol/water (log value)	No information.

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Vapour pressure	No information.
Density / weight	No information.
Relative vapour/gas density	No information.
Particle characteristics	No information.

9.2 Other information

Information with regard to physical hazard classes

No information.

Other safety characteristics

No information.

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

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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
water	oral	LD ₅₀	rat	/	> 90 ml/kg	/	/
glycerin	oral	LD ₅₀	rat	/	12600 mg/kg bw	/	/
Pentylene Glycol	oral	LD ₅₀	rat	/	> 5000 mg/kg	/	/
Pentylene Glycol	dermal	LD ₅₀	rat	/	> 2000 mg/kg	/	/
Pentylene Glycol	inhalation	LC ₅₀	rat	4 h	> 7.015 mg/L	/	/
2-phenoxyet hanol	oral	LD ₅₀	rat	/	2740 mg/kg	/	/
2-phenoxyet hanol	dermal	LD ₅₀	rabbit	/	5000 mg/kg	/	/
2-phenoxyet hanol	inhalation	LC ₅₀	rat	/	> 1 mg/L	/	/
Ethylhexyl Glycerine	oral	LD ₅₀	rat	/	2000 mg/kg	/	/
Ethylhexyl Glycerine	inhalation (dusts/mists)	LC ₅₀	rat	4 h	3.07 mg/L	/	/

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
Ethylhexyl Glycerine	dermal	LD ₅₀	rat	/	2000 mg/kg	/	/

Additional information

The product is not classified as acutely toxic.

(b) Skin corrosion/irritation

For components

Name	Species	Time	Result	Method	Remark
Pentylene Glycol	rabbit	/	negative	OECD 404	/

Additional information

The product is not classified as irritating to skin.

(c) Serious eye damage/irritation

For components

Name	Exposure route	Species	Time	Result	Method	Remark
1,2-Hexanediol	/	/	/	Causes severe eye irritation.	/	/
Pentylene Glycol	/	rabbit	/	Irreversible damage.	OECD 405	/

(d) Respiratory or skin sensitisation

For components

Name	Exposure route	Species	Time	Result	Method	Remark
Pentylene Glycol	/	guinea pig	/	It does not cause sensitization on laboratory animals.	/	/

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Additional information

The product is not classified as sensitising.

(e) (Germ cell) mutagenicity

For components

Name	Type	Species	Time	Result	Method	Remark
Pentylene Glycol	in-vitro mutagenicity	/	/	Negative.	OECD 476	/
Pentylene Glycol	in-vitro mutagenicity	/	/	Negative.	OECD 473	/

(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

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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
glycerin	LC ₅₀	54000 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
glycerin	EC ₅₀	2900 mg/L	72 h	algae	/	/	/
glycerin	LC ₅₀	1955 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
Pentylene Glycol	EC ₅₀	> 500 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
Pentylene Glycol	EC ₅₀	9335 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	DIN 38412	/

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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
Pentylene Glycol	EC ₅₀	> 10000 mg/L	17 h	microorganisms	<i>Pseudomonas putida</i>	/	/
Pentylene Glycol	EC ₁₀	> 1000 mg/L	0 h	microorganisms	<i>Pseudomonas putida</i>	/	/
2-phenoxyethanol	LC ₅₀	344 mg/L	96 h	fish	/	/	/
2-phenoxyethanol	EC ₅₀	> 500 mg/L	48 h	crustacea	<i>Daphnia</i>	/	/
2-phenoxyethanol	EC ₅₀	> 500 mg/L	72 h	algae	/	/	/
2-phenoxyethanol	NOEC	23 mg/L	/	fish	/	/	/
2-phenoxyethanol	NOEC	9.43 mg/L	21 days	crustacea	<i>Daphnia</i>	/	/
Xanthan gum	LC ₅₀	980 mg/L	/	fish	/	/	/
Xanthan gum	EC ₅₀	980 mg/L	/	crustacea	<i>Daphnia</i>	/	/
Ethylhexyl Glycerine	LC ₅₀	60.2 mg/L	96 h	fish	/	/	/
Ethylhexyl Glycerine	EC ₅₀	78.3 mg/L	48 h	aquatic invertebrates	/	/	/
Ethylhexyl Glycerine	ErC ₅₀	84.3 mg/L	72 h	algae	/	/	/

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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
Ethylhexyl Glycerine	EC ₅₀	2.1 mg/L	72 h	fish	/	/	/

Chronic (long-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
glycerin	NOEC	> 1 mg/L	28 days	algae	/	/	/
Ethylhexyl Glycerine	LC ₅₀	8.5 mg/L	35 days	fish	/	/	/

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12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
glycerin	biodegradability	> 97 %	/	/	/	/
Pentylene Glycol	biodegradability	73 %	28 days	readily biodegradable	OECD 301 E	/
2-phenoxyethanol	biodegradability	90 %	/	biodegradable	OECD 301 A	/
Xanthan gum	Biodegradation in water	/	/	readily biodegradable	/	/
Ethylhexyl Glycerine	oxygen depletion	8.2 %	5 days	/	/	ECHA

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12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

For components

Name	Value	Temperature °C	pH	Concentration	Method
Pentylene Glycol	0.06	25	/	/	/
2-phenoxyethanol	1.13	/	/	/	/
Ethylhexyl Glycerine	2.53	20	/	/	/

Bioconcentration factor (BCF)

No information.

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

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No information.

12.8 Additional information

For product

Product is not classified as hazardous for environment. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Dispose the product to an authorised collector/remover of waste/company performing waste recovery.

Waste codes / waste designations according to LoW

No information.

Packaging

Deliver completely emptied containers to approved waste disposal authorities.

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

14.1 UN number or ID number

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ADR/RID	IMDG	IATA	ADN
Not dangerous according to transport regulations.			

14.2 UN proper shipping name

ADR/RID	IMDG	IATA	ADN
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable

14.3 Transport hazard class(es)

ADR/RID	IMDG	IATA	ADN
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable

14.4 Packing group

ADR/RID	IMDG	IATA	ADN
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable

14.5 Environmental hazards

ADR/RID	IMDG	IATA	ADN
NO	NO	NO	NO

14.6 Special precautions for user

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ADR/RID	IMDG	IATA	ADN
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

ADR/RID	IMDG	IATA	ADN
/	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
- EH40/2005 Workplace exposure limits (Fourth Edition 2020)

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

No information.

15.2 Chemical Safety Assessment

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

SECTION 16: OTHER INFORMATION

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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

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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

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.