Safety data sheet

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

1.1 PRODUCT IDENTIFIER

Product name

CIANOKOL EXACT

UFI:

04G6-30U5-FH1W-9FVK

https://my.chemius.net/p/gmYlvs/en/pd/en

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Relevant identified uses

Cyanoacrylate adhesive

Uses advised against

No information.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Manufacturer

MITOL, tovarna lepil, d.o.o., Sežana
Partizanska c. 78
6210 Sežana, Slovenia
+386 5 73 12 300 (8:00-16:00)
lilijana.kocjan@mitol.si

1.4 EMERGENCY TELEPHONE NUMBER

Emergency

112

Manufacturer

+386 5 73 12 300 (8:00-16:00)

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

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

Skin Irrit. 2; H315 Causes skin irritation.
Eye Irrit. 2; H319 Causes serious eye irritation.
STOT SE 3; H335 May cause respiratory irritation.

2.2 LABEL ELEMENTS

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



Signal word: WARNING
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
P102 Keep out of reach of children.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with national regulation.

Contains:

ethyl 2-cyanoacrylate

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

 continued on next page...

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
ethyl 2-cyanoacrylate	7085-85-0 230-391-5 607-236-00-9 01-2119527766-29	≥ 90	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	STOT SE 3; H335; C ≥ 10%	/
1,4-dihydroxybenzene	123-31-9 204-617-8 604-005-00-4	≥ 0.01 – < 0.1	Acute Tox. 4; H302 Skin Sens. 1; H317 Eye Dam. 1; H318 Muta. 2; H341 Carc. 2; H351 Aquatic Acute 1; H400; M = 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.

Following inhalation

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

Following skin contact

Immediately remove contaminated clothing. Do not pull solidified material or clothes from skin. Wash affected skin areas immediately with plenty of water and soap. Cyanoacrylate gives off heat on solidification. In rare cases a large drop will generate enough heat to burn. Burns should be treated normally after the adhesive has been removed from the skin. If lips are accidentally stuck together apply warm water to the lips and encourage maximum wetting. Peel or roll lips apart. Do not try to pull the lips apart with direct opposing action. If symptoms develop and persist, seek medical attention.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Cyanoacrylate will bond to eye protein and will cause periods of weeping which will help to debond the adhesive. Keep eye covered until debonding is complete. Do not force eye open. Medical advice should be sought in case solid particles of cyanoacrylate trapped behind the eyelid cause any abrasive damage. If irritation persists, seek professional medical attention.

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. The product will polymerise immediately in the mouth making it almost impossible to swallow. Saliva will slowly seperate the solidified product from the mouth (several hours). Consult a physician. Show the physician the safety data sheet or label.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Following inhalation

Can cause irritation of respiratory system. Coughing, sneezing, nasal discharge, labored breathing. Feeling of tightness in the chest. Sore throat. Causes cough.

Following skin contact

Causes irritation of skin and mucous membrane. Itching, redness, pain. Bonds skin immediately. May cause burns to the skin.

Following eye contact

Strongly irritates the eyes. Redness, tearing, pain. Bonds eyelids immediately.

Following ingestion

Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area. The product will polymerise immediately in the mouth, making it almost impossible to swallow, but beware of possible choking hazard.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No information.

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Alcohol resistant foam.

Unsuitable extinguishing media

Full water jet. Water.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hazardous combustion products

In case of heating harmful vapours/gases can be generated. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO_2).
Nitrogen oxides (NO_X).

5.3 ADVICE FOR FIREFIGHTERS

Protective actions

In case of fire do not breathe fumes/gases. In a fire or if heated, a pressure increase will occur and the container may burst. Cool the endangered containers with water spray. Move undamaged containers from immediate hazard area if it can be done safely. Avoid contact with skin, eyes and clothing.

Special protective equipment for fire-fighters

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

Additional information

Polymerises with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Precautionary measures

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapours/mist.

Emergency procedures

Area of accident must be marked and protected. Prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

For emergency responders

During intervention, use personal protective equipment (Section 8).

6.2 ENVIRONMENTAL PRECAUTIONS

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible 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

Large spill: Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Smaller quantities treat water. Hardened (polymerized) residue mechanically remove to landfill. Do not use cloths; rags or materials made from cellulose.

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

No information.

Other measures

No information.

Advice on general occupational hygiene

Wear suitable protective equipment; see Section 8. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin and eyes. Do not breathe vapours/mist. Use only in well-ventilated areas.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Technical measures and storage conditions

Store in accordance with local regulations. Keep in cool and well ventilated area. Keep away from food, drink and animal feeding stuffs. Keep in a dry place. Keep in tightly closed container. Store between 2°C to 8°C. Protect from open fire, heat and direct sunlight. Keep away from moisture and water. Keep away from oxidizers. Store away from strong bases. Keep away from amines. Keep away from alcohols. Store between 2°C to 24°C.

Packaging materials

Store only in original container. Keep in containers of the same material as the original one.

Requirements for storage rooms and vessels

No information.

Storage class

No information.

Further information on storage conditions

No information.

7.3 SPECIFIC END USE(S)

Recommendations

See identified uses in Section 1.2.

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
Ethyl cyanoacrylate (7085-85-0)	/	/	1.5	0.3	/	/
Hydroquinone (123-31-9)	0.5	/	/	/	/	/

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
ethyl 2-cyanoacrylate	Worker	inhalation	long term local effects	/	9.25 mg/m³
ethyl 2-cyanoacrylate	Worker	inhalation	long term systemic effects	/	9.25 mg/m³
ethyl 2-cyanoacrylate	Consumer	inhalation	long term local effects	/	9.25 mg/m³

Name	Type	Exposure route	exp. frequency	Remark	value
ethyl 2-cyanoacrylate	Consumer	inhalation	long term systemic effects	/	9.25 mg/m³
ethyl 2-cyanoacrylate	Worker	inhalation	short term systemic effects	/	9.25 mg/m³
ethyl 2-cyanoacrylate	Worker	inhalation	short term local effects	/	9.25 mg/m³
ethyl 2-cyanoacrylate	Consumer	inhalation	short term systemic effects	/	9.25 mg/m³
ethyl 2-cyanoacrylate	Consumer	inhalation	short term local effects	/	9.25 mg/m³

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

Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with eyes and skin. Do not breathe vapours/aerosols. Do not eat, drink or smoke while working. For additional information on handling with material/product see section 7.1.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Keep eyewash bottles or personal eyewash units available at the workplace.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

Personal protective equipment

Eye and face protection

Safety glasses with side protection (BS EN ISO 16321-1:2022).

Hand protection

Protective gloves (BS EN ISO 374).

Appropriate materials

Material	Thickness	Penetration Time	Remark
Nitrile	> 0.15 mm	> 60 min	EN 374 – 3

Skin protection

Protective work clothing resistant to liquid chemicals (BS EN 14605:2005+A1:2009). Do not wear cellulose based protective clothing (i.e cotton, rayon, linen, viscose).

Respiratory protection

Protective masks (EN 136) or half masks (EN 140) with filter A (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. Self-contained breathing apparatus must be available in case of emergency.

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

No information.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state

liquid

Colour

colourless

Odour

pungent

Important health, safety and environmental information

Odour threshold	No information.
Melting point/Freezing point	-31 °C
Boiling point or initial boiling point and boiling range	> 150 °C at 1003 hPa
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	> 85 °C
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	substance/mixture reacts with water
Viscosity	Dynamic: 40 — 1500 cP at 20 °C kinematic: ca. 1440 mm^2/s
Solubility	Water: 0.024 g/l at 20 °C, pH 6.3
Partition coefficient	No information.
Vapour pressure	21 hPa at 20 °C
Density and/or relative density	Relative density: 1.04
Relative vapour density	No information.
Particle characteristics	No information.

9.2 OTHER INFORMATION

Weight organic solvents	≤ 3 g/l (VOC)
Oxidising properties	(Not oxidising.)
Explosive properties	Product is not explosive.

Other information

Reacts with water. Soluble in acetone.

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

Reacts with water to the solid product. Hardening time: < 50 seconds.

10.2 CHEMICAL STABILITY

Stable under normal conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Risk of exothermic polymerization. Heating may cause the container to burst.

10.4 CONDITIONS TO AVOID

Protect from heat, direct sunlight, open fire, sparks. Avoid high temperatures. Protect from moisture and water - keep in dry place.

10.5 INCOMPATIBLE MATERIALS

Water. Moisture.
Oxidants.
Strong bases.
Amines.
Alcohols.

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. Carbon dioxide; Carbon monoxide.
Nitrogen oxides. Smoke.

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
ethyl 2-cyanoacrylate	oral	LD_{50}	rat	/	> 5 ml/kg	/	/
1,4-dihydroxybenzene	dermal	LD_{50}	rabbit	/	> 2000 mg/kg	OECD 402	/

Additional information

Based on available data, the classification criteria are not met.

(b) Skin corrosion/irritation

No information.

Additional information

Causes skin irritation.

(c) Serious eye damage/irritation

No information.

Additional information

Causes serious eye irritation.

(d) Respiratory or skin sensitisation

No information.

Additional information

Based on the available data does not meet the criteria for classification.

(e) (Germ cell) mutagenicity

For product

Type	Species	Time	result	Method	Remark
/	/	/	Based on available data, the classification criteria are not met.	/	/

(f) Carcinogenicity

For product

Exposure route	Type	Species	Time	value	result	Method	Remark
/	/	/	/	/	Based on the available data does not meet the criteria for classification.	/	/

(g) Reproductive toxicity

For product

Reproductive toxicity type	Type	Species	Time	value	result	Method	Remark
/	/	/	/	/	Based on the available data does not meet the criteria for classification.	/	/

Summary of evaluation of the CMR properties

No information.

(h) STOT-single exposure

No information.

Additional information

STOT - single exposure: May cause respiratory irritation.

(i) STOT-repeated exposure

No information.

Additional information

STOT RE - repeated exposure: Based on available data, the classification criteria are not met.

(j) Aspiration hazard

No information.

Additional information

Aspiration hazard: based on available data, the classification criteria are not met.

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

No information.

Chronic (long-term) toxicity

No information.

12.2 PERSISTENCE AND DEGRADABILITY

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

No information.

12.3 BIOACCUMULATIVE POTENTIAL

Partition coefficient

For components

Name	Media	value	Temperature °C	pH	Concentration	Method
ethyl 2-cyanoacrylate	octanol-water (log Kow)	/	22	6.3	/	/

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.

Additional information

The product has low mobility in the soil.

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. Reacts with water to the solid product. No bioaccumulation potential

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Product / Packaging disposal

Waste chemical

Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste. Do not allow product to reach drains/sewage systems.

Waste codes / waste designations according to LoW

08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

Packaging

Packaging must be completely emptied - scrape with a spatula or brush so that the remaining amount of goods is no longer usable and does not drip from the packaging. Packaging emptied in this way is not hazardous waste. 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. Cleaned uncontaminated packaging may be taken for recycling. Dispose of in accordance with applicable waste disposal regulation.

Waste codes / waste designations according to LoW

15 01 02 - plastic packaging
15 01 04 - metallic packaging
15 01 10* - packaging containing residues of or contaminated by dangerous substances

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			
UN 3334	UN 3334	UN 3334	UN 3334
14.2 UN proper shipping name			
Aviation regulated liquid, n.o.s.	Aviation regulated liquid, n.o.s.	Aviation regulated liquid, n.o.s.	Aviation regulated liquid, n.o.s.
14.3 Transport hazard class(es)			
9	9	9	9

ADR/RID	IMDG	IATA	ADN
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 Classification code M11	Limited quantities Not given/not applicable Flash point 85 °C	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y964 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 30 kg G Packing Instructions (Pkg Inst) 964 Maximum Net Quantity/Package (Max Net Qty/Pkg) 450 L Cargo Aircraft Only, Packing Instructions (CAO, Pkg Inst) 964 Cargo Aircraft Only, Maximum Net Quantity/Package (CAO, Max Net Qty/Pkg) 450 L Special provisions A27 Excepted quantities E1 ERG code 9A *For additional information see below	Limited quantities Not given/not applicable
14.7 Maritime transport in bulk according to IMO instruments			

Additional information (IATA)

IATA: Limited Quantity: Y964, 30 kg G;
Cargo Packing Instruction: 964; Net Qty: 450 L;
Passenger Packing Instruction:964; Net Qty: 30kg G L
Packing group: III.

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

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

Indication of changes

2.3 Other hazards 6.3 Methods and material for containment and cleaning up 8.2 Exposure controls 9.1 Information on basic physical and chemical properties 9.2 Other information 11.2 Information on other hazards 12.6 Endocrine disrupting properties 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.