

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



**Product name: EFFECT ULTIMUM**

**Creation date: 10.03.2023, Revision: 29.11.2023, version: 4.0**

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

### 1.1 Product identifier

Product name  
EFFECT ULTIMUM



<https://my.chemius.net/p/4fJ1Qr/en/pd/en>

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

#### Relevant identified uses

Insecticide intended for annihilation of flying and crawling insects (cockroaches, ants, bedbugs and flies). For general and professional use.

#### Uses advised against

To be used only in accordance with instructions provided on the product label. Any other use is prohibited.

### 1.3 Details of the supplier of the safety data sheet

#### Supplier

UNICHEM D.O.O.  
Sinja Gorica 2  
1360 Vrhnika, Slovenia  
+386 1 755 81 50  
unichem@unichem.si

### 1.4 Emergency Telephone Number

Emergency  
112

Supplier  
+386 1 755 81 50

## 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.

Skin Sens. 1; H317 May cause an allergic skin reaction.

Eye Dam. 1; H318 Causes serious eye damage.

Carc. 2; H351 Suspected of causing cancer.

Aquatic Acute 1; H400; M = 100 Very toxic to aquatic life.

Aquatic Chronic 1; H410; M = 100 Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

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



**Signal word: DANGER**

- H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H351 Suspected of causing cancer.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with national regulation.

**Contains:**  
Alcohols, C12-14, ethoxylated  
Alcohols, C12-15, ethoxylated  
permethrin (ISO)  
tetramethrin (ISO)

**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
Alcohol ethoxylate	68920-66-1 500-236-9 -	15-30	Skin Irrit. 2; H315	/	/
Alcohols, C12-14, ethoxylated	68439-50-9 - -	15-30	Eye Dam. 1; H318 Aquatic Acute 1; H400; M = 1	/	/
piperonyl butoxide (ISO)	51-03-6 200-076-7 604-096-00-0 01-2119537431-46	18	Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1 EUH066	/	/

Alcohols, C12-15, ethoxylated	68131-39-5 -	6-15	Eye Dam. 1; H318 Aquatic Acute 1; H400; M = 1	/	/
permethrin (ISO)	52645-53-1 258-067-9 613-058-00-2	6	Acute Tox. 4; H302 Skin Sens. 1; H317 Acute Tox. 4; H332 Aquatic Acute 1; H400; M = 1000 Aquatic Chronic 1; H410; M = 1000	/	/
tetramethrin (ISO)	7696-12-0 231-711-6 607-727-00-8	1	Acute Tox. 4; H302 Carc. 2; H351 STOT SE 2; H371 Aquatic Acute 1; H400; M = 100 Aquatic Chronic 1; H410; M = 100	/	/

## 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 occur, seek medical advice.

#### Following skin contact

Take off all contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms occur, seek medical attention.

#### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Seek medical help.

#### Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. 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

May cause sensitisation by skin contact (symptoms: itching, redness, rashes).

#### Following eye contact

Discomfort or pain, excessive blinking, lacrimation and redness, swelling of the conjunctiva.

#### Following ingestion

Causes nausea/vomiting and diarrhoea. It can cause hyperactivity, convulsions, paralysis and respiratory arrest in severe cases.

### 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 heating harmful vapours/gases can be generated.

## 5.3 Advice for firefighters

### Protective actions

Cool containers at risk with water spray. If possible remove containers from endangered area.

### 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

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

## 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.

##### Emergency procedures

No information.

#### For emergency responders

No information.

### 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

No information.

#### For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. After cleaning, wash residues 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

No information.

##### Measures to protect the environment

No information.

#### 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. Avoid contact with skin and eyes. Do not breathe vapours/mist.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep in cool and well ventilated area. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

#### Packaging materials

No information.

#### Requirements for storage rooms and vessels

Keep in properly labelled containers.

#### Storage class

No information.

#### Further information on storage conditions

No information.

### 7.3 Specific end use(s)

#### Recommendations

Insecticide. Use only as directed.

#### 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
piperonyl butoxide (ISO)	Worker	inhalation	long term systemic effects	/	1.6 mg/m <sup>3</sup>
piperonyl butoxide (ISO)	Worker	dermal	long term systemic effects	/	0.443 mg/kg bw/day
piperonyl butoxide (ISO)	Consumer	inhalation	long term systemic effects	/	0.388 mg/m <sup>3</sup>
piperonyl butoxide (ISO)	Consumer	dermal	long term systemic effects	/	0.221 mg/kg bw/day
piperonyl butoxide (ISO)	Consumer	oral	long term systemic effects	/	0.221 mg/kg bw/day

#### PNEC values

##### For product

No information.

##### For components

Name	Exposure route	Remark	value
piperonyl butoxide (ISO)	fresh water	/	0.001 mg/L
piperonyl butoxide (ISO)	marine water	/	0 mg/L
piperonyl butoxide (ISO)	water treatment plant	/	2.89 mg/L
piperonyl butoxide (ISO)	fresh water sediment	dry weight	0.043 mg/kg
piperonyl butoxide (ISO)	marine water sediment	dry weight	0.004 mg/kg
piperonyl butoxide (ISO)	soil	dry weight	0.111 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.

#### 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.

### Personal protective equipment

#### Eye and face protection

Safety glasses with side protection (EN 166).

#### Hand protection

Protective gloves (EN 374).

### Appropriate materials

Material	Thickness	Penetration Time	Remark
Natural rubber	/	480 min	/

### Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

### Respiratory protection

In case of insufficient ventilation wear mask with filter FFP2 (BS EN 149).

### 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  
Prevent exposure in the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state  
liquid

Colour  
light yellow

Odour  
characteristic

Important health, safety and environmental information

Odour threshold	No information.
Melting point/Freezing point	No information.
Boiling point or initial boiling point and boiling range	> 290 °C
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	> 120 °C
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	No information.
Viscosity	No information.
Solubility	No information.
Partition coefficient	No information.
Vapour pressure	No information.
Density and/or relative density	Density: 0.9 — 1.05 g/cm <sup>3</sup>
Relative vapour density	No information.
Particle characteristics	No information.

9.2 Other information

Explosive properties	No information.
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Other information  
Vapour pressure (permethrin): 0.749 mPa at 25 °C.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended transport or storage conditions.

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**

Protect from heat, direct sunlight, open fire, sparks.

**10.5 Incompatible materials**

Strong oxidising agents.

**10.6 Hazardous decomposition products**

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
permethrin (ISO)	oral	LD <sub>50</sub>	rat	/	> 2000 mg/kg	/	/
permethrin (ISO)	dermal	LD <sub>50</sub>	rat	/	> 2000 mg/kg	/	/
permethrin (ISO)	inhalation	LC <sub>50</sub>	rat	4 h	> 0.45 mg/l	/	/
tetramethrin (ISO)	dermal	LD <sub>50</sub>	rat	/	> 2000 mg/kg	/	/
tetramethrin (ISO)	inhalation	LC <sub>50</sub>	rat	/	> 5.63 mg/m <sup>3</sup>	/	/
pipernyl butoxide (ISO)	oral	LD <sub>50</sub>	rat	/	4570 mg/kg	OECD 401	/
pipernyl butoxide (ISO)	inhalation (dusts/mists)	LC <sub>50</sub>	rat	4 h	> 5.9 mg/l	OECD 403	/
pipernyl butoxide (ISO)	dermal	LD <sub>50</sub>	rabbit	/	> 2000 mg/kg	OECD 402	/

**(b) Skin corrosion/irritation**

No information.

**Additional information**

Causes skin irritation.

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

No information.

**Additional information**

Causes serious eye damage.

**(d) Respiratory or skin sensitisation**

No information.

**Additional information**

May cause an allergic skin reaction.

**(e) (Germ cell) mutagenicity**

No information.

**(f) Carcinogenicity**

No information.

**(g) Reproductive toxicity**

No information.

**Summary of evaluation of the CMR properties**

Suspected of causing cancer.

**(h) STOT-single exposure**

No information.



**Additional information**

May cause respiratory irritation.

**(i) STOT-repeated exposure**

No information.

**(j) Aspiration hazard**

No information.

**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
permethrin (ISO)	LC <sub>50</sub>	0.145 mg/L	96 h	fish	<i>Cyprinus carpio</i>	/	/
permethrin (ISO)	LC <sub>50</sub>	8.9 µg/l	96 h	fish	<i>Poecilia reticulata</i>	/	/
permethrin (ISO)	EC <sub>50</sub>	0.02 mg/L	24 h	crustacea	<i>Daphnia magna</i>	/	/
permethrin (ISO)	EC <sub>50</sub>	> 0.022 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	/	/
permethrin (ISO)	EC <sub>50</sub>	> 1000 mg/L	3 h	bacteria	Activated sludge	/	/
tetramethrin (ISO)	LC <sub>50</sub>	0.033 mg/L	96 h	fish	<i>Brachydanio rerio</i>	/	/
tetramethrin (ISO)	EC <sub>50</sub>	0.47 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
tetramethrin (ISO)	LC <sub>50</sub>	> 1.36 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	/	/
pipernyl butoxide (ISO)	LC <sub>50</sub>	3.94 mg/L	96 h	fish	<i>Cyprinodon variegatus</i>	OECD 203	/
pipernyl butoxide (ISO)	EC <sub>50</sub>	0.51 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/
pipernyl butoxide (ISO)	EC <sub>50</sub>	3.89 mg/L	72 h	algae	<i>Selenastrum capricornutum</i>	OECD 201	/

**Chronic (long-term) toxicity****For components**

Name	Type	value	Exposure time	Species	organism	Method	Remark
pipernyl butoxide (ISO)	NOEC	0.18 mg/l	/	fish	<i>Pimephales promelas</i>	EPA OPP 72-4	/
pipernyl butoxide (ISO)	NOEC	0.03 mg/l	21 days	crustacea	<i>Daphnia magna</i>	/	/
pipernyl butoxide (ISO)	NOEC	0.824 mg/l	72 h	algae	<i>Selenastrum capricornutum</i>	OECD 201	/

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination  
No information.

Biodegradation  
For components

Name	Type	Rate	Time	Evaluation	Method	Remark
pipernyl butoxide (ISO)	/	/	/	Not rapidly biodegradable.	OECD 301 D	/

12.3 Bioaccumulative potential

Partition coefficient  
For components

Name	Media	value	Temperature °C	pH	Concentration	Method
pipernyl butoxide (ISO)	octanol-water (log Kow)	4.8	/	6.5	/	OECD 117

Bioconcentration factor (BCF)  
For components

Name	Species	organism	value	Duration	Evaluation	Method	Remark
pipernyl butoxide (ISO)	BCF	/	91 - 380	/	/	OECD 305 E	/

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  
Very toxic to aquatic organisms.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

**Product / Packaging disposal**  
**Waste chemical**  
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.

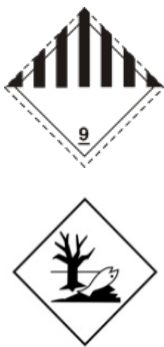
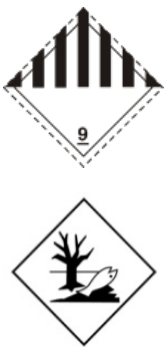
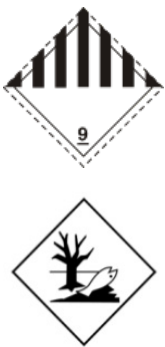
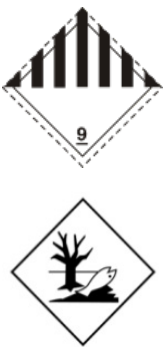
**Waste codes / waste designations according to LoW**  
No information.

**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			
UN 3082	UN 3082	UN 3082	UN 3082
14.2 UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (permethrin (ISO))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (permethrin (ISO))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (permethrin (ISO))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (permethrin (ISO))
14.3 Transport hazard class(es)			
9	9	9	9
			
14.4 Packing group			
III	III	III	III
14.5 Environmental hazards			
YES	Marine pollutant	YES	YES
14.6 Special precautions for user			

Limited quantities 5 L Special provisions 274, 335, 375, 601 Packing Instructions P001, IBC03, LP01, R001 Special packing provisions PP1 Transport category 3 Tunnel restriction code (-) Classification code M6	Limited quantities 5 L EmS F-A, S-F Flash point 120 °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 A97, A158, A197 Excepted quantities E1 ERG code 9L	Limited quantities 5 L
14.7 Maritime transport in bulk according to IMO instruments			
	Goods may not be carried in bulk in bulk containers, containers or vehicles.		

SECTION 15: REGULATORY INFORMATION

<p>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</p> <ul style="list-style-type: none"><li>- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)</li><li>- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures</li></ul> <p>Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline) not applicable</p> <p>Ingredients according to Regulation (EC) No 648/2004 on detergents No information.</p> <p>Special instructions -</p>
<p>15.2 Chemical Safety Assessment</p> <p>No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.</p>

SECTION 16: OTHER INFORMATION

<p>Indication of changes</p> <p>11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 12.1 Toxicity 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</p> <p>Key literature references and sources for data</p> <p>No information.</p>
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**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.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H371 May cause damage to organs.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
EUH066 Repeated exposure may cause skin dryness or cracking.



- ☑ Provided correct labelling of the product
- ☑ Compliance with the local legislation
- ☑ Provided correct classification of the product
- ☑ Provided adequate transport data

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*The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.*