

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)



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

1.1. Product identifier

Product name : ATF VI

Product code : 19280

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

Transmission oil

1.3. Details of the supplier of the safety data sheet

Registered company name : MOTUL

Address : 119, Boulevard Felix Faure. 93300 AUBERVILLIERS CEDEX FRANCE

Telephone : 33.1.48.11.70.00. Fax: 33.1.48.33.28.79. Telex: .

Email : motul_hse@motul.fr

1.4. Emergency telephone number : +44 (0) 1235 239 670.

Association/Organisation : ORFILA.

Other emergency numbers

BRAZIL : +55 11 3197 5891 / COLOMBIA : +57 1 508 7337 / ARGENTINA : +54 11 5984 3690 / CHILE : +562 2582 9336

Ireland : +353 1 8092566

UNITED STATES: 001 866 928 0789 / CANADA: 001 800 579 7421 / MEXICO : +52 55 5004 8763 / MIDDLE EAST - AFRICA : +44 1235 239671

24 hours a day, 7 days a week

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Additional labeling :

Hazard statements :

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements - General :

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Precautionary statements - Prevention :

P273 Avoid release to the environment.

Precautionary statements - Disposal :

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European CHemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	(EC) 1272/2008	Note	%
CAS: 72623-87-1	GHS08	L	50 \leq x % < 100
EC: 276-738-4	Dgr		
REACH: 01-2119474889-13	Asp. Tox. 1, H304		
LUBRICATING OILS (PETROLEUM),			

C20-50, HYDROTREATED NEUTRAL OIL-BASED CAS: 68649-11-6 EC: 500-228-5 REACH: 01-2119493069-28	GHS07, GHS08 Dgr Asp. Tox. 1, H304 Acute Tox. 4, H332	2.5 <= x % < 10
DEC-1-ENE, DIMERS, HYDROGENATED CAS: 72623-86-0 EC: 276-737-9 REACH: *01-2119474878-16	GHS08 Dgr Asp. Tox. 1, H304	1 <= x % < 2.5
LUBRICATING OILS (PETROLEUM), C15-30, HYDROTREATED NEUTRAL OIL-BASED CAS: 36878-20-3 EC: 253-249-4 REACH: 01-2119488911-28	Aquatic Chronic 4, H413	1 <= x % < 2.5
BIS(NONYLPHENYL)AMINE EC: 406-040-9 REACH: 01-0000015551-76	Aquatic Chronic 4, H413	1 <= x % < 2.5
REACTION MASS OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXY PHENYL)PROPIONATE EC: 424-820-7 REACH: 01-0000017126-75	GHS07, GHS05, GHS09 Dgr Acute Tox. 4, H312 Skin Corr. 1B, H314 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 10	0 <= x % < 1
REACTION PRODUCT OF ALKYLTHIOALCOHOL AND SUBSTITUTED PHOSPHORUS COMPOUND CAS: 93882-40-7 EC: 299-434-3 REACH: 01-2120735527-50	GHS07, GHS09 Wng Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	0 <= x % < 1

(Full text of H-phrases: see section 16)

Information on ingredients :

Note L: The carcinogen classification does not apply because the substance contains less than 3 % w/w of dimethyl sulphoxide (DMSO) measured using the IP 346 method.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures**In the event of exposure by inhalation :**

Remove the victim to fresh air. If the symptoms persist, call a physician.

In the event of splashes or contact with eyes :

Wash immediately and abundantly with water, including under the eyelids.

In the event of splashes or contact with skin :

Immediately remove all soiled clothing.
Wash immediately and abundantly with soap and water.

In the event of swallowing :

Seek medical attention, showing the label.

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

No data available.


4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

 Suitable methods of extinction
Dry agent, foam, carbon dioxide.

5.2. Unsuitable methods of extinction

 High volume water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

5.3. Advice for firefighters

No data available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

Spilled product may make surfaces slippery.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Avoid contact with eyes.

No special precaution apart from the observance of hygiene rules

Fire prevention :

Prevent access by unauthorised personnel.

Take precautionary measures against static discharges by bonding and grounding equipment.

No smoking.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Ensure good ventilation at the workplace

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

Do not breathe fumes, vapour, spray.

7.2. Conditions for safe storage, including any incompatibilities

Store between 5°C and 40°C in a dry, well ventilated place.

Only use hydrocarbon-resistant containers, joints and pipes.

Storage

Keep out of reach of children.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

No data available.

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

REACTION MASS OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE

Final use:

Exposure method:

Potential health effects:

DNEL :

Workers.

Dermal contact.

Short term systemic effects.

20 mg/kg de poids corporel/jour

Exposure method:

Potential health effects:

DNEL :

Dermal contact.

Short term local effects.

1 mg de substance/cm2

Exposure method:

Potential health effects:

DNEL :

Dermal contact.

Long term systemic effects.

0.22 mg/kg de poids corporel/jour

Exposure method:

Potential health effects:

DNEL :

Dermal contact.

Long term local effects.

0.006 mg de substance/cm2

BIS(NONYLPHENYL)AMINE (CAS: 36878-20-3)

Final use:

Exposure method:

Potential health effects:

DNEL :

Workers.

Dermal contact.

Long term systemic effects.

0.62 mg/kg de poids corporel/jour

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Long term systemic effects.

4.37 mg de substance/m3

Final use:

Exposure method:

Potential health effects:

DNEL :

Consumers.

Ingestion.

Long term systemic effects.

0.31 mg/kg de poids corporel/jour

Exposure method:

Potential health effects:

DNEL :

Dermal contact.

Long term systemic effects.

0.31 mg/kg de poids corporel/jour

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Long term systemic effects.

1.09 mg de substance/m3

LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED (CAS: 72623-87-1)

Final use:

Exposure method:

Potential health effects:

DNEL :

Workers.

Inhalation.

Long term local effects.

5.4 mg de substance/m3

Final use:

Exposure method:

Potential health effects:

DNEL :

Consumers.

Inhalation.

Long term local effects.

1.2 mg de substance/m3

Predicted no effect concentration (PNEC):

4,4'-THIODIETHYLENE HYDROGEN -2-OCTADECENYLSUCCINATE (CAS: 93882-40-7)

Environmental compartment: Fresh water.
PNEC : 0.000062 mg/l

REACTION PRODUCT OF ALKYLTHIOALCOHOL AND SUBSTITUTED PHOSPHORUS COMPOUND

Environmental compartment: Soil.
PNEC : 0.104 mg/kgEnvironmental compartment: Fresh water.
PNEC : 0.036 mg/lEnvironmental compartment: Fresh water sediment.
PNEC : 0.128 mg/kg

REACTION MASS OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE

Environmental compartment: Soil.
PNEC : 189 mg/kgEnvironmental compartment: Fresh water.
PNEC : 0.0043 mg/lEnvironmental compartment: Sea water.
PNEC : 0.00043 mg/lEnvironmental compartment: Fresh water sediment.
PNEC : 233 mg/kgEnvironmental compartment: Marine sediment.
PNEC : 23.3 mg/kg

BIS(NONYLPHENYL)AMINE (CAS: 36878-20-3)

Environmental compartment: Soil.
PNEC : 263000 mg/kgEnvironmental compartment: Fresh water.
PNEC : 0.1 mg/lEnvironmental compartment: Sea water.
PNEC : 0.01 mg/lEnvironmental compartment: Intermittent waste water.
PNEC : 1 mg/lEnvironmental compartment: Fresh water sediment.
PNEC : 132000 mg/kgEnvironmental compartment: Marine sediment.
PNEC : 13200 mg/kgEnvironmental compartment: Waste water treatment plant.
PNEC : 1 mg/l**8.2. Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.
Personnel shall wear regularly laundered overalls.

Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.
Store personal protective equipment in a clean place, away from the work area.
Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.
Use eye protectors designed to protect against liquid splashes
Before handling, wear safety goggles in accordance with standard EN166.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

- Body protection

Work clothing worn by personnel shall be laundered regularly.
After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Breathing apparatus only when aerosol or spray are formed.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties****General information :**

Physical state :	Fluid liquid.
Color:	red

Important health, safety and environmental information

pH :	Not relevant.
Flash Point Interval :	FP > 100°C.
Vapour pressure (50°C) :	Not relevant.
Density :	< 1
Water solubility :	Insoluble.
Viscosity :	30.2 mm ² /s à 40°C

9.2. Other information

No data available.

SECTION 10 : STABILITY AND REACTIVITY**10.1. Reactivity**

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

No data available.

11.1.1. Substances**Acute toxicity :**

4,4'-THIODIETHYLENE HYDROGEN -2-OCTADECENYLSUCCINATE (CAS: 93882-40-7)

Oral route : LD50 > 5000 mg/kg
Species : Rat

REACTION PRODUCT OF ALKYLTHIOALCOHOL AND SUBSTITUTED PHOSPHORUS COMPOUND

Oral route : LD50 > 2000 mg/kg
Méthode REACH B.1 (Toxicité aiguë (orale))

Dermal route :	LD50 > 500 mg/kg Méthode REACH B.3 (Toxicité aiguë (voie cutanée))
REACTION MASS OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE	
Oral route :	LD50 > 2000 mg/kg Species : Rat OCDE Ligne directrice 401 (Toxicité aiguë par voie orale)
Dermal route :	LD50 > 2000 mg/kg Species : Rat OCDE Ligne directrice 402 (Toxicité aiguë par voie cutanée)
BIS(NONYLPHENYL)AMINE (CAS: 36878-20-3)	
Oral route :	LD50 > 5000 mg/kg Species : Rat OCDE Ligne directrice 401 (Toxicité aiguë par voie orale)
Dermal route :	LD50 > 2000 mg/kg Species : Rat OCDE Ligne directrice 402 (Toxicité aiguë par voie cutanée)
DEC-1-ENE, DIMERS, HYDROGENATED (CAS: 68649-11-6)	
Oral route :	LD50 > 5000 mg/kg Species : Rat
Inhalation route (Dusts/mist) :	LC50 = 1.7 mg/l

11.1.2. Mixture

Skin corrosion/skin irritation :

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non allergic contact dermatitis and absorption through the skin.

Serious damage to eyes/eye irritation :

Mild eye irritation

Aspiration hazard :

"Inhalation of vapours may cause irritation of the respiratory system in very susceptible persons."

May cause lung damage if swallowed

SECTION 12 : ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity

12.1.1. Substances

4,4'-THIODIETHYLENE HYDROGEN -2-OCTADECENYLSUCCINATE (CAS: 93882-40-7)

Fish toxicity : LC50 > 100 mg/l
Species : *Oryzias latipes*
Duration of exposure : 96 h
OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity : EC50 = 9.5 mg/l
Species : *Daphnia magna*
Duration of exposure : 48 h
OCDE Ligne directrice 202 (*Daphnia* sp., essai d'immobilisation immédiate)

Algae toxicity : ECr50 > 100 mg/l
Species : *Pseudokirchnerella subcapitata*
Duration of exposure : 72 h
OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

REACTION PRODUCT OF ALKYLTHIOALCOHOL AND SUBSTITUTED PHOSPHORUS COMPOUND

Fish toxicity : LC50 = 1.5 mg/l
Species : *Oncorhynchus mykiss*

Duration of exposure : 96 h
OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity :
EC50 = 0.09 mg/l
Factor M = 10
Species : *Daphnia magna*
Duration of exposure : 48 h
OCDE Ligne directrice 202 (*Daphnia* sp., essai d'immobilisation immédiate)

NOEC = 0.14 mg/l
Factor M = 1
Species : *Daphnia magna*
Duration of exposure : 21 jours

Algae toxicity :
ECr50 = 0.31 mg/l
Factor M = 1
Species : *Pseudokirchnerella subcapitata*
Duration of exposure : 72 h

REACTION MASS OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE

Fish toxicity :
LC50 > 74 mg/l
Species : *Danio rerio*
Duration of exposure : 96 h
OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity :
EC50 > 100 mg/l
Species : *Daphnia magna*
Duration of exposure : 24 h
OCDE Ligne directrice 202 (*Daphnia* sp., essai d'immobilisation immédiate)

Algae toxicity :
ECr50 > 3 mg/l
Species : *Desmodesmus subspicatus*
Duration of exposure : 72 h
OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

BIS(NONYLPHENYL)AMINE (CAS: 36878-20-3)

Fish toxicity :
LC50 > 100 mg/l
Species : *Danio rerio*
Duration of exposure : 96 h
OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity :
EC50 > 100 mg/l
Species : *Daphnia magna*
Duration of exposure : 48 h
OCDE Ligne directrice 202 (*Daphnia* sp., essai d'immobilisation immédiate)

Algae toxicity :
ECr50 > 100 mg/l
Species : *Desmodesmus subspicatus*
Duration of exposure : 72 h
OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

DEC-1-ENE, DIMERS, HYDROGENATED (CAS: 68649-11-6)

Fish toxicity :
LC50 > 1000 mg/l
Duration of exposure : 96 h

Crustacean toxicity :
EC50 > 1000 mg/l
Duration of exposure : 48 h

NOEC = 125 mg/l
Duration of exposure : 21 jours

Aquatic plant toxicity :
NOEC = 1000 mg/l
Duration of exposure : 72 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability**12.2.1. Substances**

4,4'-THIODIETHYLENE HYDROGEN -2-OCTADECENYLSUCCINATE (CAS: 93882-40-7)

Biodegradability : Non-rapidly degradable.

REACTION PRODUCT OF ALKYLTHIOALCOHOL AND SUBSTITUTED PHOSPHORUS COMPOUND

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

REACTION MASS OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE

Biodegradability : Non-rapidly degradable.

BIS(NONYLPHENYL)AMINE (CAS: 36878-20-3)

Biodegradability : Non-rapidly degradable.

DEC-1-ENE, DIMERS, HYDROGENATED (CAS: 68649-11-6)

Biodegradability : Non-rapidly degradable.

12.3. Bioaccumulative potential**12.3.1. Substances**

4,4'-THIODIETHYLENE HYDROGEN -2-OCTADECENYLSUCCINATE (CAS: 93882-40-7)

Bioaccumulation : BCF = 140

REACTION MASS OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE

Octanol/water partition coefficient : log K_{ow} = 9.2

Bioaccumulation : BCF = 260

Species : *Oncorhynchus mykiss* (Fish)

OCDE Ligne directrice 305 (Bioconcentration: Essai dynamique chez le poisson)

BIS(NONYLPHENYL)AMINE (CAS: 36878-20-3)

Octanol/water partition coefficient : log K_{ow} > 7.6

DEC-1-ENE, DIMERS, HYDROGENATED (CAS: 68649-11-6)

Octanol/water partition coefficient : log K_{ow} > 6.5

12.4. Mobility in soil

Not very mobile in soil.

The product is insoluble in water and will spread on the surface

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Do not dispose of the product in the natural environment, effluents or surface waters.

German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :

WGK 3 : Extremely hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

14.1. UN number

-

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

-

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

SECTION 15 : REGULATORY INFORMATION

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 1297/2014.

- Container information:

No data available.

- Particular provisions :

No data available.

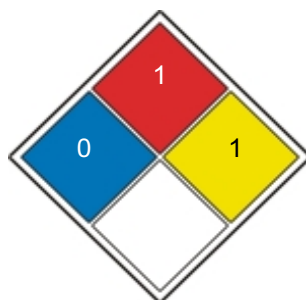


- German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :

WGK 3 : Extremely hazardous for water.

- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :

NFPA 704, Labelling: Health=0 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



15.2. Chemical safety assessment

Product is not classified health and environmental hazard. Exposure scenarios are not required.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.



Wording of the phrases mentioned in section 3 :

H304	May be fatal if swallowed and enters airways.
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H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Abbreviations :

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.