# SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

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

#### 1.1. Product identifier

Product name : 8100 X-CESS 5W40 DE Product code : 17602

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

4-stroke engine lubricant

# 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

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

BRAZIL : +55 11 3197 5891 / COLOMBIA : +57 601 508 7337 / ARGENTINA : +54 11 5984 3690 / CHILE : +562 2582 9336 Ireland : +353 1 8092566

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.

May produce an allergic reaction (EUH208).

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 an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

# 2.2. Label elements

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

Additional labeling :

Contains C14-16-18 ALKYL PHENOL. May produce an allergic reaction.

# EUH208 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 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. The mixture does not contain substances> = 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

### **SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.2. Mixtures

# Composition :

		NI 1	0/
Identification	(EC) 1272/2008	Note	%
CAS: 64742-54-7		L	25 <= x % < 50
EC: 265-157-1			
REACH: 01-2119484627-25			
DISTILLATES (PETROLEUM),			
HYDROTREATED HEAVY PARAFFINIC			
CAS: 64742-54-7	GHS08	L	25 <= x % < 50
EC: 265-157-1	Dgr		
REACH: 01-119484627-25	Asp. Tox. 1, H304		
DISTILLATES (PETROLEUM),			
HYDROTREATED HEAVY PARAFFINIC			



ETY DATA SHEET (REGULATION (EC) n° X-CESS 5W40 DE - 17602		versic	n 6.1 (20-07-2022) - Page
CAS: 72623-86-0	GHS08	L	2.5 <= x % < 10
EC: 276-737-9	Dgr		
REACH: 01-2119474878-16	Asp. Tox. 1, H304		
LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED			
	GHS08		2.5 <= x % < 10
CAS: 64742-54-7		L	2.5 <= x % < 10
EC: 265-157-1 REACH: 01-2119484627-25	Dgr Asp. Tox. 1, H304		
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC			
CAS: 72623-87-1	GHS08	L	2.5 <= x % < 10
EC: 276-738-4	Dgr		
REACH: 01-2119474889-13	Asp. Tox. 1, H304		
LUBRICATING OILS (PETROLEUM), C20-50, HYDROTREATED NEUTRAL OIL-BASED			
CAS: 64742-54-7	GHS08	L	1 <= x % < 2.5
EC: 265-157-1	Dgr		
REACH: 01-2119484627-25	Asp. Tox. 1, H304		
DISTILLATES (PETROLEUM),			
HYDROTREATED HEAVY PARAFFINIC			
CAS: 64742-56-9	GHS08	L	1 <= x % < 2.5
		L	1 ~= x /6 ~ 2.5
EC: 265-159-2	Dgr		
REACH: 01-2119480132-48	Asp. Tox. 1, H304		
DISTILLATES (PETROLEUM),			
SOLVENT-DEWAXED LIGHT			
PARAFFINIC			
CAS: 64742-65-0	GHS08	L	1 <= x % < 2.5
EC: 265-169-7	Dgr		
REACH: 01-2119471299-27	Asp. Tox. 1, H304		
DISTILLATES (PETROLEUM),			
SOLVENT-DEWAXED HEAVY			
PARAFFINIC			
	GHS08	L	1 <= x % < 2.5
CAS: 64742-70-7		L	I N= X % ≤ 2.5
EC: 265-174-4	Dgr		
REACH: 01-2119487080-42	Asp. Tox. 1, H304		
PARAFFIN OILS (PETROLEUM),			
CATALYTIC DEWAXED HEAVY			
EC: 931-468-2	GHS07, GHS08		0 <= x % < 1
REACH: 01-2119498288-19	Wng		
	Skin Sens. 1B, H317		
C14-16-18 ALKYL PHENOL	STOT RE 2, H373		
UIN-IU ALNIL FIIENUL	5101 RE 2, 113/3		

# Information on ingredients :

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

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 :

In the event of an allergic reaction, seek medical attention.

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 :

In the event of an allergic reaction, seek medical attention.

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.

#### 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.

Remove and wash contaminated clothing before re-using.

Do not swallow

Do not get in eyes, on skin, or on clothing.

# Fire prevention :

Prevent access by unauthorised personnel.

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

No smoking.

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#### 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  $5^{\circ}$ C and  $40^{\circ}$ 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.

Final use:

DNEL :

Exposure method:

Potential health effects:

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

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC (CAS: 64742-54-7)

Final use:	Workers.
Exposure method:	Inhalation.
Potential health effects:	Long term local effects. 5.4 mg of substance/m3
	J mg of substance/mj

# **Consumers.** Inhalation. Long term local effects. 1.2 mg of substance/m3

#### Predicted no effect concentration (PNEC):

 DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC (CAS: 64742-54-7)

 Environmental compartment:
 Fresh water predators (oral).

 PNEC :
 9.33

#### 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.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

## Type of gloves recommended :

Glove	0.38 mm
thickness:	

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> 480 mn Break-through time:

# - 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

Physical state	
Physical state :	Fluid liquid.
Colour	
Color:	Amber
Odour	
Odour threshold :	Not stated.
Melting point	
Melting point/melting range :	Not relevant.
Freezing point	
Freezing point / Freezing range :	Not stated.
Boiling point or initial boiling point and boiling range	
Boiling point/boiling range :	Not relevant.
Flammability	
Flammability (solid, gas):	Not stated.
Lower and upper explosion limit	
Explosive properties, lower explosivity limit (%) :	Not stated.
Explosive properties, upper explosivity limit (%):	Not stated.
Flash point	
Flash Point Interval :	FP > 100°C.
Auto-ignition temperature	
Self-ignition temperature :	Not relevant.
Decomposition temperature	
Decomposition point/decomposition range :	Not relevant.
pH	
pH (aqueous solution) :	Not stated.
pH :	Not relevant.
Kinematic viscosity	
Viscosity :	86.7 mm²/s à 40°C
Solubility	
Water solubility :	Insoluble.
Fat solubility :	Not stated.
Partition coefficient n-octanol/water (log value)	
Partition coefficient: n-octanol/water :	Not stated.
Vapour pressure	
Vapour pressure (50°C) :	Not relevant.
Density and/or relative density	
Density :	<1
Relative vapour density	
Vapour density :	Not stated.

9.2.1. Information with regard to physical hazard classes  $\sim$ 

No data available.

 $\sim$ 9.2.2. Other safety characteristics

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

Keep away from heat and from sources of ignition Take precautionary measures against static discharges.

### 10.5. Incompatible materials

Strong oxidants

Acids

# 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 hazard classes as defined in Regulation (EC) No 1272/2008

2

# 11.1.1. Substances

# Acute toxicity :

No data available.

DISTILLATES (PETROLEUM), HYDROTRE	EATED HEAVY PARAFFINIC (CAS: 64742-54-7)
Oral route :	LD50 > 5000 mg/kg
	Species : Rat
	OCDE Ligne directrice 401 (Toxicité aiguë par voie orale)
Dermal route :	LD50 > 5000 mg/kg
	Species : Rabbit
	OCDE Ligne directrice 402 (Toxicité aiguë par voie cutanée
Inhalation route (Dusts/mist) :	LC50 > 5.53 mg/l
	OCDE Ligne directrice 403 (Toxicité aiguë par inhalation)
	EATED HEAVY PARAFFINIC (CAS: 64742-54-7)
Oral route :	LD50 > 5000 mg/kg
	Species : Rat
Dermal route :	LD50 > 2000 mg/kg
	Species : Rabbit
Inhalation route (Dusts/mist) :	LC50 > 5.53 mg/l
	Species : Rat
DISTILLATES (PETROLEUM), HYDROTRE	EATED HEAVY PARAFFINIC (CAS: 64742-54-7)
Oral route :	LD50 > 5000 mg/kg
	Species : Rat
Dermal route :	2,000 < LD50 <= 5000 mg/kg
	Species : Rabbit
Inhalation route (Dusts/mist) :	LC50 > 5.53 mg/l
ecific target organ systemic toxicity - rep	eated exposure :
DISTILLATES (PETROLEUM), HYDROTRE	EATED HEAVY PARAFFINIC (CAS: 64742-54-7)
Oral route :	C = 125 mg/kg poids corporel/jour
	Species : Rat
	Duration of exposure : 90 jours

OCDE Ligne directrice 408 (Toxicité orale à doses répétées - rongeurs: 90

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# jours)

Dermal route :

C = 30 mg/kg poids corporel/jour Species : Rat Duration of exposure : 90 jours OCDE Ligne directrice 411 (Toxicité cutanée subchronique: 90 jours)

# 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

#### Respiratory or skin sensitisation :

Contains at least one sensitising substance. May cause an allergic reaction.

### Aspiration hazard :

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

May cause lung damage if swallowed

### 11.2. Information on other hazards

12.1. Toxicity

C

12.1.1. Substances		
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC (CAS: 64742-54-7)		
Fish toxicity :	LC50 > 100 mg/l	
	Species : Pimephales promelas	
	Duration of exposure : 96 h	
	NOEC = 1000 mg/l	
	Species : Oncorhynchus mykiss	
	Duration of exposure : 14 jours	
Crustacean toxicity :	EC50 > 10000 mg/l	
	Species : Daphnia magna	
	Duration of exposure : 48 h	
	NOEC = 10 mg/l	
	Species : Daphnia magna	
	Duration of exposure : 21 jours	
Algae toxicity :	NOEC >= 100 mg/l	
	Species : Pseudokirchnerella subcapitata	
	Duration of exposure : 72 h	
DISTILLATES (PETROLEUM), HYDROTREATED HEA	VX PARAFFINIC (CAS: 64742-54-7)	
Fish toxicity :	LC50 > 100  mg/l	
FISH TOXICITY .	Duration of exposure : 96 h	
Crustacean toxicity :	EC50 > 100 mg/l	
	Duration of exposure : 48 h	
Algae toxicity :	ECr50 > 100 mg/l	
Auguo toxiony .	Duration of exposure : 72 h	
DISTILLATES (PETROLEUM), HYDROTREATED HEA	VY PARAFFINIC (CAS: 64742-54-7)	
Fish toxicity :	LC50 > 100 mg/l	
	Duration of exposure : 96 h	
Crustacean toxicity :	EC50 > 100 mg/l	
Grusiacean loxicity.	Duration of exposure : 48 h	

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Algae toxicity :	ECr50 > 100 mg/l Duration of exposure : 72 h	
12.1.2. Mixtures		
	ture.	
Biodegradability :	no degradability data is available degrading quickly.	e, the substance is considered as not
DISTILLATES (PETROLEUM), HYDROTRE Biodegradability :	EATED HEAVY PARAFFINIC (CAS: 64742-54 Non-rapidly degradable.	4-7)
DISTILLATES (PETROLEUM), HYDROTRE Biodegradability :	EATED HEAVY PARAFFINIC (CAS: 64742-54 Rapidly degradable.	4-7)
DISTILLATES (PETROLEUM), HYDROTRE Biodegradability :	EATED HEAVY PARAFFINIC (CAS: 64742-54 Rapidly degradable.	4-7)
12.3. Bioaccumulative potential		
12.3.1. Substances		
	EATED HEAVY PARAFFINIC (CAS: 64742-54	4-7)
Octanol/water partition coefficient :	log Koe < 6	,
DISTILLATES (PETROLEUM), HYDROTRE Octanol/water partition coefficient :	EATED HEAVY PARAFFINIC (CAS: 64742-54 log Koe < 6	1-7)
12.4. Mobility in soil		
-		
	ead on the surface	
12.5. Results of PBT and vPvB assessment		
No data available.		
12.6. Endocrine disrupting properties		
No data available.		
12.7. Other adverse effects		
	environment, effluents or surface waters.	
German regulations concerning the classifi	cation of hazards for water (WGK, AwSV vo	om 18/04/2017, KBws) :
WGK 1 : Slightly hazardous for water.		
SECTION 13 : DISPOSAL CONSIDERATION	ONS	
Proper waste management of the mixture an	nd/or its container must be determined in acco	rdance with Directive 2008/98/EC.
13.1. Waste treatment methods		
Do not pour into drains or waterways.		
Waste :		
soil, plants or animals.		
Recycle or dispose of waste in compliance w	vith current legislation, preferably via a certified	d collector or company.
	Algae toxicity : Algae toxicity : 12.1.2. Mixtures No aquatic toxicity data available for the mix 12.2. Persistence and degradability 12.2.1. Substances C14-16-18 ALKYL PHENOL Biodegradability : DISTILLATES (PETROLEUM), HYDROTRI Biodegradability : DISTILLATES (PETROLEUM), HYDROTRI Biodegradability : DISTILLATES (PETROLEUM), HYDROTRI Biodegradability : 12.3. Bioaccumulative potential 12.3.1. Substances DISTILLATES (PETROLEUM), HYDROTRI Biodegradability : 12.3. Bioaccumulative potential 12.3.1. Substances DISTILLATES (PETROLEUM), HYDROTRI Octanol/water partition coefficient : DISTILLATES (PETROLEUM), HYDROTRI Octanol/water partition coefficient : 12.4. Mobility in soil Not very mobile in soil. The product is insoluble in water and will spr 12.5. Results of PBT and vPvB assessment No data available. 12.6. Endocrine disrupting properties No data available. 12.7. Other adverse effects Do not dispose of the product in the natural of German regulations concerning the classifit WGK 1 : Slightly hazardous for water. SECTION 13 : DISPOSAL CONSIDERATION Proper waste management of the mixture art 13.1. Waste treatment methods Do not pour into drains or waterways. Waste : Waste management is carried out without ert	Algae toxicity :       ECr60 > 100 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. Persistence and degradability         12.2. Persistence and degradability       12.2. Persistence and degradability         12.2. Persistence and degradability       12.2. Persistence and degradability         12.1. Substances       C14-16-18 ALKYL PHENOL         Biodegradability :       no degradability data is available degradabile.         DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC (CAS: 64742-54 Biodegradability :       Rapidly degradable.         DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC (CAS: 64742-54 Biodegradability :       Rapidly degradable.         12.3. Bioaccumulative potential       12.3.1 Substances         DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC (CAS: 64742-54 Octanol/water partition coefficient :       log Koe < 6

# 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 or ID number

-

7

# 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. 2021/643 (ATP 16)
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/849 (ATP 17)
- 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 1 : Slightly hazardous for water.

# 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.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure .

### Abbreviations :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

- LC50 : The concentration of a test substance resulting in 50% lethality in a given period.
- EC50 : The effective concentration of substance that causes 50% of the maximum response.
- ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.
- NOEC : The concentration with no observed effect.
- REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.
- 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 : Wassergefahrdungsklasse (Water Hazard Class).
- PBT: Persistent, bioaccumulable and toxic.
- vPvB : Very persistent, very bioaccumulable.
- SVHC : Substances of very high concern.