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Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS\_RW

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name : Valvoline™ VR1 RACING SAE 5W50  
SYNTHETIC RACING OIL

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

Recommended use : Engine, gear & lubricating oil.

<b>1.3 Details of the supplier of the safety data sheet</b> Ellis Enterprises B.V., an affiliate of Valvoline Wieldrechtseweg 39 3316 BG Dordrecht Netherlands +31 (0)78 654 3500 (in the Netherlands), or contact your local CSR contact person  SDS@valvoline.com	<b>1.4 Emergency telephone number</b> 00-800-825-8654 / 001-859-202-3865, or contact your local emergency telephone number at 112  <b>Product Information</b> +31 (0)78 654 3500 (in the Netherlands), or contact your local CSR contact person
---	---

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.


#### Additional Labelling:

EUH210 Safety data sheet available on request.

### 2.3 Other hazards

#### Additional advice

No information available.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Static Accumulator

#### Hazardous components


Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based	72623-87-1 276-738-4 01-2119474889-13-xxxx	Asp. Tox.1; H304	>= 60,00 - < 70,00
DECENE-1 HOMOPOLYMER HYDROGENATED	68037-01-4 01-2119486452-34-xxxx	Asp. Tox.1; H304	>= 15,00 - < 25,00
Reaction products of Benzeneamine, N- phenyl- with nonene (branched)	36878-20-3 01-2119488911-28-xxxx	Aquatic Chronic4; H413	>= 1,00 - < 2,50

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : No hazards which require special first aid measures.
- If inhaled : If breathed in, move person into fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

Symptoms : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
stomach or intestinal upset (nausea, vomiting, diarrhea)  
irritation (nose, throat, airways)

Risks : Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

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

Treatment : No hazards which require special first aid measures.

---

### SECTION 5: Firefighting measures


#### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide  
Hydrocarbons  
nitrogen oxides (NO<sub>x</sub>)  
Aldehydes  
calcium oxide  
Sulphur oxides

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### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

---

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
Comply with all applicable federal, state, and local regulations.

### 6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling


Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice.

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

Advice on common storage : No materials to be especially mentioned.

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Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : No data available

---

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Engineering measures

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

#### Personal protective equipment

Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Hand protection

Remarks : Nitrile rubber butyl-rubber

Skin and body protection : Wear as appropriate:  
Safety shoes

Respiratory protection : No personal respiratory protective equipment normally required.

---

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : amber

Odour : oily

Odour Threshold : No data available

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pH	:	Not applicable
Pour point	:	< -39,00 °C
Boiling point/boiling range	:	> 225,00 °C
Flash point	:	> 200 °C
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	25 hPa Calculated Vapor Pressure
Relative vapour density	:	No data available
Relative density	:	0,855
Density	:	ca. 0,855 g/cm <sup>3</sup> (15,6 °C)
Bulk density	:	Not applicable
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, kinematic	:	ca. 110 mm <sup>2</sup> /s (40 °C)
Oxidizing properties	:	No data available

**9.2 Other information**

No data available

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No decomposition if stored and applied as directed.

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## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

## 10.4 Conditions to avoid

Conditions to avoid : None known.

## 10.5 Incompatible materials

Materials to avoid : Acids  
Oxidizing agents

## 10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide and carbon monoxide  
Nitrogen oxides (NOx)

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation  
Skin contact  
Eye Contact  
Ingestion

### Acute toxicity

Not classified based on available information.

### Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based

Acute oral toxicity	: LD50 (Rat): > 5.000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 5,58 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: Not classified as acutely toxic by inhalation under GHS. Remarks: No mortality observed at this dose.
Acute dermal toxicity	: LD50 (Rabbit): > 5.000 mg/kg Remarks: No mortality observed at this dose.

### Components:

DECENE-1 HOMOPOLYMER HYDROGENATED

Acute oral toxicity	: LD50 (Rat): > 5.000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 5,2 mg/l Exposure time: 4 h



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Test atmosphere: **dust/mist**Assessment: **No adverse effect has been observed in acute inhalation toxicity tests.**

Acute dermal toxicity

: **LD50 (Rabbit): > 2.000 mg/kg**Assessment: **No adverse effect has been observed in acute dermal toxicity tests.**

## Components:

Reaction products of Benzeneamine, N-phenyl- with nonene (branched)

Acute oral toxicity : **LD50 (Rat): > 5.000 mg/kg**

Acute dermal toxicity

: **LD50 (Rat): > 2.000 mg/kg**Assessment: **Not classified as acutely toxic by dermal absorption under GHS.**Remarks: **Information given is based on data obtained from similar substances.**

## Skin corrosion/irritation

Not classified based on available information.

## Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based

Species: **Rabbit**Result: **No skin irritation**

DECENE-1 HOMOPOLYMER HYDROGENATED

Species: **Rabbit**Result: **No skin irritation**

Reaction products of Benzeneamine, N-phenyl- with nonene (branched)

Species: **Rabbit**Result: **Mild skin irritation**Remarks: **Information given is based on data obtained from similar substances.**

## Serious eye damage/eye irritation

Not classified based on available information.

## Product:

Result: Slight, transient irritation

Remarks: Expected based on components.

Remarks: Unlikely to cause eye irritation or injury.

## Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based

Species: **Rabbit**Result: **No eye irritation**

DECENE-1 HOMOPOLYMER HYDROGENATED

Species: **Rabbit**Result: **Slight, transient irritation**





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Reaction products of Benzeneamine, N-phenyl- with nonene (branched)

Species: **Rabbit**

Result: **Slight, transient irritation**

Remarks: **Information given is based on data obtained from similar substances.**

## Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based

Test Type: **Buehler Test**

Species: **Guinea pig**

Assessment: **Does not cause skin sensitisation.**

## DECENE-1 HOMOPOLYMER HYDROGENATED

Test Type: **Maximisation Test**

Species: **Guinea pig**

Assessment: **Does not cause skin sensitisation.**

Method: **OECD Test Guideline 406**

Reaction products of Benzeneamine, N-phenyl- with nonene (branched)

Species: **Guinea pig**

Assessment: **Does not cause skin sensitisation.**

Method: **OECD Test Guideline 406**

Remarks: **Information given is based on data obtained from similar substances.**

## Germ cell mutagenicity

Not classified based on available information.

### Components:

DECENE-1 HOMOPOLYMER HYDROGENATED

Genotoxicity in vitro

: Test Type: **Ames test**

Test species: **Salmonella typhimurium**

Metabolic activation: **with and without metabolic activation**

Result: **negative**

Reaction products of Benzeneamine, N-phenyl- with nonene (branched)

Genotoxicity in vitro

: Test Type: **Ames test**

Test species: **Salmonella typhimurium**

Metabolic activation: **with and without metabolic activation**

Result: **negative**

## Carcinogenicity

Not classified based on available information.

## Reproductive toxicity


Not classified based on available information.

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

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#### Aspiration toxicity

Not classified based on available information.

#### Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based

May be fatal if swallowed and enters airways.

#### DECENE-1 HOMOPOLYMER HYDROGENATED

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### Further information

##### Product:

Remarks: No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based

Toxicity to fish	: LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	: EL50 (Daphnia magna (Water flea)): > 10.000 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202
Toxicity to algae	: NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	: NOELR: Calculated >= 1.000 mg/l Exposure time: 14 d Species: Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates	: NOEL: 10 mg/l Exposure time: 21 d

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(Chronic toxicity)

Species: **Daphnia (water flea)**

Test substance: **WAF**

Method: **OECD Test Guideline 211**
**DECENE-1 HOMOPOLYMER HYDROGENATED**

Toxicity to fish : **LL50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l**  
Exposure time: **96 h**  
Test Type: **semi-static test**  
Test substance: **WAF**

Toxicity to daphnia and other aquatic invertebrates : **EL50 (Daphnia magna (Water flea)): > 1.000 mg/l**  
Exposure time: **48 h**  
Test Type: **static test**  
Test substance: **WAF**  
Method: **OECD Test Guideline 202**

Toxicity to algae : **EL50 (Scenedesmus capricornutum (fresh water algae)): > 1.000 mg/l**  
End point: **Growth inhibition**  
Exposure time: **72 h**  
Test Type: **static test**  
Test substance: **WAF**  
Method: **OECD Test Guideline 201**


Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : **NOELR: 125 mg/l**  
Exposure time: **21 d**  
Species: **Daphnia magna (Water flea)**  
Test Type: **semi-static test**  
Test substance: **WAF**  
Method: **OECD Test Guideline 211**

**Reaction products of Benzeneamine, N-phenyl- with nonene (branched)**

Toxicity to fish : **LC50 (Danio rerio (zebra fish)): > 100 mg/l**  
Exposure time: **96 h**  
Test Type: **static test**  
Remarks: **Information given is based on data obtained from similar substances.**

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea)): > 100 mg/l**  
Exposure time: **48 h**  
Test Type: **static test**  
Test substance: **WAF**

Toxicity to algae : **EC50 (Pseudokirchneriella subcapitata (algae)): 600 mg/l**  
End point: **Growth inhibition**  
Exposure time: **72 h**  
Test Type: **static test**

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## 12.2 Persistence and degradability

### Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based

Biodegradability : Result: **Not readily biodegradable.**  
Biodegradation: **2 - 4 %**  
Exposure time: **28 d**  
Method: **OECD Test Guideline 301B**

DECENE-1 HOMOPOLYMER HYDROGENATED

Biodegradability : Result: **Inherently biodegradable.**

Reaction products of Benzeneamine, N-phenyl- with nonene (branched)

Biodegradability : Result: **Not readily biodegradable.**  
Biodegradation: **0 %**  
Exposure time: **28 d**  
Method: **OECD Test Guideline 301B**

## 12.3 Bioaccumulative potential

### Components:

DECENE-1 HOMOPOLYMER HYDROGENATED

Partition coefficient: n-octanol/water : log Pow: **> 6,5**

Reaction products of Benzeneamine, N-phenyl- with nonene (branched)

Partition coefficient: n-octanol/water : log Pow: **> 7,5**

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

Not relevant

## 12.6 Other adverse effects


### Product:

Additional ecological information : No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Contaminated packaging : Empty remaining contents.

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## SECTION 14: Transport information

### SECTION 14: Transport information

#### 14.1 UN number

**ADN:** Not dangerous goods

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

#### 14.2 UN proper shipping name

**ADN:** Not dangerous goods

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

#### 14.3 Transport hazard class(es)

**ADN:** Not dangerous goods

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

#### 14.4 Packing group

**ADN:** Not dangerous goods

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

#### 14.5 Environmental hazards

**ADN:** Not applicable


**ADR:** Not applicable

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not applicable

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not applicable

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not applicable

**RID:** Not applicable

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#### 14.6 Special precautions for user

Not applicable

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship Type: Not applicable  
Hazard code(s): Not applicable  
Pollutant Category: Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

### SECTION 15: Regulatory information

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

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable


Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

#### The components of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

AICS On the inventory, or in compliance with the inventory

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ENCS	On the inventory, or in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
TSCA	On TSCA Inventory

#### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

#### 15.2 Chemical safety assessment

No data available

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### SECTION 16: Other information

#### Further information

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#### Full text of H-Statements


H304	May be fatal if swallowed and enters airways.
H413	May cause long lasting harmful effects to aquatic life.

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department ('+31 (0)78 654 3500).

Sources of key data used to compile the Safety Data Sheet

Valvoline internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.


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List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists  
 BEI : Biological Exposure Index  
 CAS : Chemical Abstracts Service (Division of the American Chemical Society).  
 CMR : Carcinogenic, Mutagenic or Toxic for Reproduction  
 FG : Food grade  
 GHS : Globally Harmonized System of Classification and Labeling of Chemicals.  
 H-statement : Hazard Statement  
 IATA : International Air Transport Association.  
 IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
 ICAO : International Civil Aviation Organization  
 ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"  
 IMDG : International Maritime Code for Dangerous Goods  
 ISO : International Organization for Standardization  
 logPow : octanol-water partition coefficient  
 LCxx : Lethal Concentration, for xx percent of test population  
 LDxx : Lethal Dose, for xx percent of test population.  
 ICxx : Inhibitory Concentration for xx of a substance  
 Ecxx : Effective Concentration of xx  
 N.O.S.: Not Otherwise Specified  
 OECD : Organization for Economic Co-operation and Development  
 OEL : Occupational Exposure Limit  
 P-Statement : Precautionary Statement  
 PBT : Persistent , Bioaccumulative and Toxic  
 PPE : Personal Protective Equipment  
 STEL : Short-term exposure limit  
 STOT : Specific Target Organ Toxicity  
 TLV : Threshold Limit Value  
 TWA : Time-weighted average  
 vPvB : Very Persistent and Very Bioaccumulative  
 WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands  
 ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN: Regulation for the Carriage of Dangerous Substances on the Rhine  
 CLP : Classification, Labelling and Packaging  
 CSA : Chemical Safety Assessment  
 CSR : Chemical Safety Report  
 DNEL : Derived No Effect Level.  
 EINECS : European Inventory of Existing Commercial Chemical Substances.  
 ELINCS : European List of Notified Chemical Substances  
 PEC : Predicted Effect Concentration  
 PEL : Permissible Exposure Limits  
 PNEC : Predicted No Effect Concentration  
 R-pharse : Risk phrase  
 REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals  
 RID : Regulation Concerning the International Transport of Dangerous Goods by Rail



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S-phrase: Safety phrase  
WGK : German Water Hazard Class