


**SAFETY DATA SHEET**

Revision Date: 16.01.2017

Print Date: 25.10.2022

SDS Number: R0517764

No data.  
VE885

Version: 1.0

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

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**
**1.1 Product identifier**

Trade name : No data available

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

Recommended use : Cleaning solutions.

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

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

**1.4 Emergency telephone number**

+1-800-VALVOLINE (+1-800-825-8654), or  
contact your local emergency telephone number at  
06 80 20 11 99, 06 1 476 6464

**Product Information**

+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)**

Flammable liquids, Category 2

H225: Highly flammable liquid and vapour.

Skin irritation, Category 2

H315: Causes skin irritation.

Reproductive toxicity, Category 2

H361: Suspected of damaging fertility or the unborn child.

Specific target organ toxicity - single  
exposure, Category 3, Central nervous  
system

H336: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated  
exposure, Category 2

H373: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.

Chronic aquatic toxicity, Category 2

H411: Toxic to aquatic life with long lasting effects.



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## 2.2 Label elements

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

Hazard pictograms :



Signal word : Danger

Hazard statements :

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements :

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
<b>Prevention:</b>	
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
<b>Response:</b>	
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use carbon dioxide to extinguish.
<b>Storage:</b>	
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
<b>Disposal:</b>	
P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:  
n-Hexane

## 2.3 Other hazards

## Additional advice

No information available.

## SECTION 3: Composition/information on ingredients

## 3.2 Mixtures


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Chemical nature : Static Accumulator

**Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
n-Hexane	110-54-3 203-777-6	Flam. Liq.2; H225 Repr.2; H361 STOT SE3; H336 STOT RE2; H373 Asp. Tox.1; H304 Aquatic Chronic2; H411 Skin Irrit.2; H315	>= 40,00 - < 50,00

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures**
**4.1 Description of first aid measures**

- General advice : Move out of dangerous area.  
Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
Consult a physician after significant exposure.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.  
If on skin, rinse well with water.  
Wash contaminated clothing before re-use.  
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Obtain medical attention.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.


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If symptoms persist, call a physician.

**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 : Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause drowsiness or dizziness.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

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

Treatment : No hazards which require special first aid measures.

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**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  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Do not allow run-off from fire fighting to enter drains or water


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courses.

Hazardous combustion products : carbon dioxide and carbon monoxide  
Hydrocarbons

**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 : Do not use a solid water stream as it may scatter and spread fire.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Use a water spray to cool fully closed containers.

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**SECTION 6: Accidental release measures**
**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Evacuate personnel to safe areas.  
Remove all sources of ignition.  
Use personal protective equipment.  
Ensure adequate ventilation.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
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.  
Suppress (knock down) gases/vapours/mists with a water spray jet.

**6.2 Environmental precautions**

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).


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**6.4 Reference to other sections**

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

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**SECTION 7: Handling and storage**
**7.1 Precautions for safe handling**

- Advice on safe handling : Open drum carefully as content may be under pressure.  
 Avoid formation of aerosol.  
 Provide sufficient air exchange and/or exhaust in work rooms.  
 Do not breathe vapours/dust.  
 Do not smoke.  
 Container hazardous when empty.  
 Take precautionary measures against static discharges.  
 Avoid exposure - obtain special instructions before use.  
 Avoid contact with skin and eyes.  
 Smoking, eating and drinking should be prohibited in the application area.  
 For personal protection see section 8.  
 Dispose of rinse water in accordance with local and national regulations.  
 Container may be opened only under exhaust ventilation hood.
- Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). No sparking tools should be used. Keep away from open flames, hot surfaces and sources of ignition. Use only explosion-proof equipment.
- Hygiene measures : Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

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

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. No smoking. Electrical installations / working materials must comply with the technological safety standards.
- Other data : No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

- Specific use(s) : No data available


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**SECTION 8: Exposure controls/personal protection**
**8.1 Control parameters**
**Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
n-Hexane	110-54-3	TWA	20 ppm 72 mg/m <sup>3</sup>	2006/15/EC
		TWA	72 mg/m <sup>3</sup>	HU OEL
		STEL	288 mg/m <sup>3</sup>	HU OEL

**Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
N-HEXANE	110-54-3	2,5-hexane-dion: 3.5 mg/g Creatinine (Urine)	After shift	HU BAT
		2,5-hexane-dion: 3.5 micromol/mmol creatinine (rounded value) (Urine)	After shift	HU BAT

**8.2 Exposure controls**
**Engineering measures**

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 : Rubber gloves Nitrile rubber

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Wear as appropriate:  
Impervious clothing  
Safety shoes


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Flame-resistant clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Discard gloves that show tears, pinholes, or signs of wear.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

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**SECTION 9: Physical and chemical properties**
**9.1 Information on basic physical and chemical properties**

Appearance : liquid

Colour : blue

Odour : characteristic

Odour Threshold : No data available

pH :  
Not applicable

Melting point/freezing point : No data available

Boiling point/boiling range : > 69 °C

Flash point : -22 °C

Evaporation rate : 8,00

Flammability (solid, gas) : No data available

Upper explosion limit : 7,4 %(V)

Lower explosion limit : 1,4 %(V)

Vapour pressure : 162 hPa (20 °C)

Relative vapour density : No data available

Relative density :  
No data available

Density : 0,750 g/cm<sup>3</sup>

Solubility(ies)  
Water solubility : insoluble




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Solubility in other solvents : No data available

Partition coefficient: n-  
octanol/water : Not applicable

Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : 1 mPa.s (20 °C)Viscosity, kinematic : ca. 2 mm<sup>2</sup>/s (40 °C)

Oxidizing properties : No data available

**9.2 Other information**

No data available

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

No decomposition if stored and applied as directed.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : Vapours may form explosive mixture with air.

**10.4 Conditions to avoid**

Conditions to avoid : Heat, flames and sparks.

None known.

**10.5 Incompatible materials**
Materials to avoid : Acids  
peroxides  
Strong oxidizing agents
**10.6 Hazardous decomposition products**
Hazardous decomposition  
products : carbon dioxide and carbon monoxide  
Hydrocarbons

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**SECTION 11: Toxicological information**
**11.1 Information on toxicological effects**


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

**Acute toxicity**

Not classified based on available information.

**Components:**

n-Hexane

Acute oral toxicity : LD50 (Rat, male and female): ca. 16 g/kg

Acute inhalation toxicity : LC50 (Rat, male): > 5000 ppm  
Exposure time: 24 hAcute dermal toxicity : LD50 (Rabbit, male and female): > 2.000 mg/kg  
Assessment: No adverse effect has been observed in acute dermal toxicity tests.
**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

Result: Repeated exposure may cause skin dryness or cracking.

Remarks: May cause skin irritation and/or dermatitis.

**Components:**

n-Hexane

Result: Irritating to skin.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

**Components:**

n-Hexane

Result: Slight, transient irritation

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.


**Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

**Components:**

n-Hexane

Reproductive toxicity - Assessment : Suspected of damaging fertility., Some evidence of adverse effects on sexual function and fertility, based on animal

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experiments.

**STOT - single exposure**

May cause drowsiness or dizziness.

**Components:**

n-Hexane

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

**STOT - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Components:**

n-Hexane

Exposure routes: Inhalation

Target Organs: Nervous system

Assessment: Causes damage to organs through prolonged or repeated exposure.

**Aspiration toxicity**

May be fatal if swallowed and enters airways.

**Product:**

May be fatal if swallowed and enters airways.

**Components:**

n-Hexane

May be fatal if swallowed and enters airways.

**Further information**

**Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Components:**


n-Hexane

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): 9,29 mg/l  
Exposure time: 72 h

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

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## 12.2 Persistence and degradability

### Components:

n-Hexane  
Biodegradability : Remarks: Expected to be biodegradable

## 12.3 Bioaccumulative potential

### Components:

n-Hexane  
Partition coefficient: n-  
octanol/water : log Pow: 3,90

## 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 : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.


Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

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## SECTION 14: Transport information

### SECTION 14: Transport information

#### 14.1 UN number

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**ADR:** Not dangerous goods  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** UN1993  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** UN1993  
**INTERNATIONAL MARITIME DANGEROUS GOODS:** UN1993  
**RID:** Not dangerous goods

**14.2 UN proper shipping name**

**ADR:** Not dangerous goods  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Flammable liquid, n.o.s. (NORMAL-HEXANE)  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Flammable liquid, n.o.s. (NORMAL-HEXANE)  
**INTERNATIONAL MARITIME DANGEROUS GOODS:** FLAMMABLE LIQUID, N.O.S. (NORMAL-HEXANE)  
**RID:** Not dangerous goods

**14.3 Transport hazard class(es)**

**ADR:** Not dangerous goods  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** 3  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** 3  
**INTERNATIONAL MARITIME DANGEROUS GOODS:** 3  
**RID:** Not dangerous goods

**14.4 Packing group**

**ADR:** Not dangerous goods  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** II  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** II  
**INTERNATIONAL MARITIME DANGEROUS GOODS:** II  
**RID:** Not dangerous goods

**14.5 Environmental hazards**

**ADR:** Environmentally hazardous  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Environmentally hazardous  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Environmentally hazardous  
**INTERNATIONAL MARITIME DANGEROUS GOODS:** Environmentally hazardous, MARINE POLLUTANT  
**RID:** Environmentally hazardous

**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


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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.

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5.000 t	50.000 t
E2	ENVIRONMENTAL HAZARDS	200 t	500 t

Volatile organic compounds : Law on the incentive tax for volatile organic compounds (VOCV)  
Volatile organic compounds (VOC) content: 50 %, 375 g/l

according to Detergents Regulation EC 648/2004 : 30 % and more: Aliphatic hydrocarbons

Other regulations : Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work.

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Pregnant women may only work with or be exposed to this product if, based on a risk assessment in the context of the activities and risk management measures taken, the exposure will not lead to any injury for mother and/or child (Maternity Protection Directive 92/85/EC as amended).

2000 XXV. Law on chemical safety  
44/2000. (XII 27) Ministry of health dangerous substances and preparations dangerous for certain procedures and arrangements for activities

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

EINECS	:	
DSL		This product contains one or several components that are not on the Canadian DSL and have annual quantity limits.
AICS		Not in compliance with the inventory
ENCS		Not in compliance with the inventory
KECI		Not in compliance with the inventory
PICCS		Not in compliance with the inventory
IECSC		Not in compliance with the inventory
TSCA		Not 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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**Classification procedure:**

H225	Highly flammable liquid and vapour.	On basis of test data.
H315	Causes skin irritation.	Calculation method
H361	Suspected of damaging fertility or the unborn child.	Calculation method


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H336	May cause drowsiness or dizziness.	Calculation method
H373	May cause damage to organs through prolonged or repeated exposure.	Calculation method
H304	May be fatal if swallowed and enters airways.	On basis of test data.
H411	Toxic to aquatic life with long lasting effects.	Calculation method

**Full text of H-Statements**

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.
H411	Toxic to aquatic life with long lasting effects.

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.

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



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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-phrase : Risk phrase  
 REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals  
 RID : Regulation Concerning the International Transport of Dangerous Goods by Rail  
 S-phrase: Safety phrase  
 WGK : German Water Hazard Class