



SAFETY DATA SHEET

Valvoline™ AIRCO REFRESHER

Version: 2.0

Revision Date: 04.08.2020

Print Date: 12/09/2022

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_GB

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

1.1 Product identifier

Trade name : Valvoline™ AIRCO REFRESHER

Product code : 892334

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

Recommended use : Preparation

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

00-800-825-8654 / 001-859-202-3865, or contact
your local emergency telephone number at 112

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)

Aerosols, Category 1

H229: Pressurised container: May burst if heated.

H222: Extremely flammable aerosol.

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

H336: May cause drowsiness or dizziness.

2.2 Label elements

UFI : UCRY-1PSF-0T49-APVS



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Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H336
H229
H222

May cause drowsiness or dizziness.
Pressurised container: May burst if heated.
Extremely flammable aerosol.

Precautionary statements

: P102
P101

Keep out of reach of children.
If medical advice is needed, have product
container or label at hand.

Prevention:

P251

Do not pierce or burn, even after use.

P211

Do not spray on an open flame or other
ignition source.

P210

Keep away from heat, hot surfaces, sparks,
open flames and other ignition sources. No
smoking.

P260

Do not breathe spray.

Storage:

P410 + P412

Protect from sunlight. Do not expose to
temperatures exceeding 50 °C/ 122 °F.

Disposal:

P501

Dispose of contents/ container to an
approved waste disposal plant.

Hazardous components which must be listed on the label:

1-Methoxypropan-2-ol

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Additional advice

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components



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Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
1-Methoxypropan-2-ol	107-98-2 203-539-1 01-2119457435-35-xxxx	Flam. Liq.3; H226 STOT SE3; H336	>= 40,00 - < 50,00
Substances with a workplace exposure limit :			
dimethyl ether	115-10-6 204-065-8 01-2119472128-37-0005	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 70,00 - < 80,00

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.
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 : 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 : If eye irritation persists, consult a specialist.
Protect unharmed eye.
Remove contact lenses.
Flush eyes with water as a precaution.
- If swallowed : Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No symptoms known or expected.



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Risks : May cause drowsiness or dizziness.
Causes serious eye irritation.

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
Alcohol-resistant foam
Carbon dioxide (CO₂)
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 courses.

Hazardous combustion products : No hazardous combustion products are known

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 : 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.
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.

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

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 : Dispose of rinse water in accordance with local and national regulations.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Avoid exposure - obtain special instructions before use.
Take precautionary measures against static discharges.
Container hazardous when empty.
Do not smoke.
Do not breathe vapours/dust.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.

Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition. Use



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only explosion-proof equipment.

Hygiene measures : Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. No smoking.

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

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
dimethyl ether	115-10-6	TWA	1.000 ppm 1.920 mg/m3	2000/39/EC
		TWA	400 ppm 766 mg/m3	GB EH40
		STEL	500 ppm 958 mg/m3	GB EH40
1-Methoxypropan-2-ol	107-98-2	TWA	100 ppm 375 mg/m3	2000/39/EC
		STEL	150 ppm 568 mg/m3	2000/39/EC
		TWA	100 ppm 375 mg/m3	GB EH40
		STEL	150 ppm 560 mg/m3	GB EH40

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

dimethyl ether : End Use: **Workers**
Exposure routes: **Inhalation**
Potential health effects: **Long-term systemic effects**
Value: **1894 mg/m3**



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End Use: **Consumers**
Exposure routes: **Inhalation**
Potential health effects: **Long-term systemic effects**
Value: **471 mg/m3**

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

dimethyl ether : **Fresh water**
Value: **0,155 mg/l**
Marine water
Value: **0,016 mg/l**
Sewage treatment plant
Value: **160 mg/l**
Fresh water sediment
Value: **0,681 mg/kg**
Marine sediment
Value: **0,069 mg/kg**
Soil
Value: **0,045 mg/kg**

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 : 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
Flame-resistant clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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

Use respiratory protection unless adequate local exhaust



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ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: aerosol
Colour	: colourless
Odour	: aromatic
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit / Upper flammability limit	: 26,2 %(V)
Lower explosion limit / Lower flammability limit	: 2 %(V)
Vapour pressure	: 4 hPa (20 °C)
Relative vapour density	: No data available
Relative density	: No data available
Density	: 0,71 g/cm ³ (20 °C)
Solubility(ies)	
Water solubility	: immiscible



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Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Ignition temperature : 240 °C

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

9.2 Other information

Self-ignition : not auto-flammable

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.

Exposure to air or moisture over prolonged periods.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents
strong bases
Strong acids
salts of strong bases
lithium aluminum hydride
halogens



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Carbon monoxide
aluminium hydride
aluminum

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

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:

1-METHOXY-2-PROPANOL:

Acute oral toxicity : LD50 (Rat): 4.016 mg/kg
Acute inhalation toxicity : LC50 (Rat): > 10000 ppm
Exposure time: 4 h
Test atmosphere: vapour
Acute dermal toxicity : LD50 (Rabbit): 13.000 mg/kg

Components:

DIMETHYL ETHER:

Acute inhalation toxicity : LC50 (Mouse): 494,36 mg/l
Exposure time: 15 min
Test atmosphere: gas
LC50 (Mouse): 385,94 mg/l
Exposure time: 30 min
Test atmosphere: gas
LC50 (Rat): 164000 ppm
Exposure time: 4 h
Test atmosphere: gas



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Skin corrosion/irritation

Not classified based on available information.

Components:

1-METHOXY-2-PROPANOL:

Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:

1-METHOXY-2-PROPANOL:

Result: Slight, transient irritation

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:

1-METHOXY-2-PROPANOL:

Assessment: Did not cause sensitisation on laboratory animals.

DIMETHYL ETHER:

Remarks: Not applicable

Germ cell mutagenicity

Not classified based on available information.

Components:

1-METHOXY-2-PROPANOL:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Result: negative

DIMETHYL ETHER:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

: Test Type: Chromosome aberration test in vitro
Result: negative

: Test Type: In vitro mammalian cell gene mutation test
Result: negative



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Genotoxicity in vivo : Test Type: **unscheduled DNA synthesis assay**
Result: **negative**
: Test species: **Drosophila melanogaster (vinegar fly)**
Result: **negative**

Carcinogenicity

Not classified based on available information.

Components:

DIMETHYL ETHER:

Species: **Rat**
Application Route: **inhalation (vapour)**
NOAEL: **No observed adverse effect level: 47,106 mg/l**
Result: **negative**

Reproductive toxicity

Not classified based on available information.

Components:

DIMETHYL ETHER:

Effects on fertility : Application Route: **inhalation (gas)**
Result: **Animal testing did not show any effects on fertility.**
Effects on foetal development : Application Route: **inhalation (vapour)**
Method: **OECD Test Guideline 414**
Result: **No teratogenic effects**
GLP: **yes**

STOT - single exposure

May cause drowsiness or dizziness.

Components:

1-METHOXY-2-PROPANOL:

Assessment: **May cause drowsiness or dizziness.**

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

DIMETHYL ETHER:

Species: **Rat**
No observed adverse effect level: 47,106 g/m3



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Application Route: **inhalation (vapour)**
Method: **OECD Test Guideline 452**

Aspiration toxicity

Not classified based on available information.

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:

1-Methoxypropan-2-ol

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test
Toxicity to algae	: EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l End point: Growth inhibition Exposure time: 7 d Test Type: static test

dimethyl ether

Toxicity to fish	: LC50 (Poecilia reticulata (guppy)): > 4,1 g/l Exposure time: 96 h Test Type: semi-static test Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna Straus): > 4,4 g/l Exposure time: 48 h Test Type: static test Remarks: No toxicity at the limit of solubility



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Toxicity to algae	: EC50 : 155 mg/l Exposure time: 96 h Remarks: QSAR
Toxicity to bacteria	: EC10 (Pseudomonas putida): > 1.600 mg/l

12.2 Persistence and degradability

Components:

1-Methoxypropan-2-ol

Biodegradability	: Result: Readily biodegradable. Biodegradation: 96 % Exposure time: 28 d Method: OECD Test Guideline 301E
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dimethyl ether

Biodegradability	: Test Type: aerobic Inoculum: activated sludge Concentration: 2 mg/l Result: Not readily biodegradable. Biodegradation: 5 % Method: OECD Test Guideline 301D Remarks: According to the results of tests of biodegradability this product is not readily biodegradable.
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12.3 Bioaccumulative potential

Components:

dimethyl ether

Partition coefficient: n-octanol/water	: log Pow: 0,10
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12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..
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Components:

dimethyl ether



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Assessment	: This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT)..
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12.6 Other adverse effects

Product:

Additional ecological information	: No data available
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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. 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.

SECTION 14: Transport information

14.1 UN number

ADN	: UN 1950
ADR	: UN 1950
RID	: UN 1950
IMDG	: UN 1950
IATA	: UN 1950

14.2 UN proper shipping name

ADN	: AEROSOLS
ADR	: AEROSOLS
RID	: AEROSOLS
IMDG	: AEROSOLS



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IATA : AEROSOLS

14.3 Transport hazard class(es)

ADN	:	2
ADR	:	2
RID	:	2
IMDG	:	2.1
IATA	:	2.1

14.4 Packing group

ADN	
Packing group	: Not assigned by regulation

Classification Code	: 5F
Labels	: 2.1

ADR	
Packing group	: Not assigned by regulation

Classification Code	: 5F
Labels	: 2.1
Tunnel restriction code	: (D)

RID	
Packing group	: Not assigned by regulation

Classification Code	: 5F
Hazard Identification Number	: 23
Labels	: 2.1

IMDG	
Packing group	: Not assigned by regulation

Labels	: 2.1
EmS Code	: F-D, S-U

IATA (Cargo)

Packing instruction (cargo aircraft)	: 203
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Packing instruction (LQ)	: Y203
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Packing group	: Not assigned by regulation
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Labels	: Flammable Gas
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IATA (Passenger)

Packing instruction (passenger aircraft)	: 203
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Packing instruction (LQ)	: Y203
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Packing group	: Not assigned by regulation
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Labels	: Flammable Gas
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14.5 Environmental hazards



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ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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 - 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



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REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : 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
P3a	FLAMMABLE AEROSOLS	150 t	500 t

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.

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

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

TCSI : 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)



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15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Further information

Internal information : 000000274856

Full text of H-Statements

H220	Extremely flammable gas.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H336	May cause drowsiness or dizziness.

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).



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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.
ADNR: 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
S-pharse: Safety phrase
WGK : German Water Hazard Class