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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™ WHITE GREASE
WHITE GREASE (LITHIUM)

1.2 Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : lubricant

<p>1.3 Details of the supplier of the safety data sheet Ashland P.O. Box 8619 NL3009 AP, Rotterdam Netherlands EUSMT@ashland.com</p>	<p>1.4 Emergency telephone number 00-800-274-5263-3/001-606-329-5701 , or contact your local emergency telephone number at 112 Product Information +31 10 497 5000 (in the Netherlands), or contact your local CSR contact person</p>
--	--

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1	H222: Extremely flammable aerosol.
	H229: Pressurised container: May burst if heated.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
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.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :



Signal word :

Danger

Hazard statements :

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

H304

May be fatal if swallowed and enters airways.

H336

May cause drowsiness or dizziness.

H411

Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements :

EUH066

Repeated exposure may cause skin dryness or cracking.

Precautionary statements :

P101

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

P102

Keep out of reach of children.

P103

Read label before use.

Prevention:

P210

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P211

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

P251

Do not pierce or burn, even after use.

P261

Avoid breathing spray.

P273

Avoid release to the environment.

Response:

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P304 + P340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage:

P410 + P412

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

P403 + P233

Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501

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

Hazardous components which must be listed on the label:

Pentane

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

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 (%)
Pentane	109-66-0 203-692-4 01-2119459286-30-xxxx	Flam. Liq.2; H225 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 15 - < 20
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	920-750-0 01-2119473851-33-xxxx	Flam. Liq.2; H225 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 10 - < 15
Propane	74-98-6 200-827-9 01-2119486944-21-xxxx	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 5 - < 10
Substances with a workplace exposure limit :			
Butane	106-97-8 203-448-7 01-2119474691-32-xxxx	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 25 - < 40

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.

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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 : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.
- 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 : 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)
Shortness of breath
confusion
irregular heartbeat
- 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.
May cause drowsiness or dizziness.
Repeated exposure may cause skin dryness or cracking.

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

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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 : 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 : 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.

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.
Suppress (knock down) gases/vapours/mists with a water spray jet.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

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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 : Open drum carefully as content may be under pressure.
 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.
 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.

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. 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.

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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
Butane	106-97-8	TWA	600 ppm 1.450 mg/m ³	EH40 WEL
		STEL	750 ppm 1.810 mg/m ³	EH40 WEL
Pentane	109-66-0	TWA	600 ppm 1.800 mg/m ³	EH40 WEL

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 : Nitrile rubber Neoprene

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.

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

Appearance	: aerosol
Colour	: colourless
Odour	: hydrocarbon-like
Odour Threshold	: No data available
pH	: Not applicable
Melting point/freezing point	: not determined
Boiling point/boiling range	: -44 °C No data available
Flash point	: -97 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: 2.100 hPa (20 °C)
Relative vapour density	: No data available
Relative density	: No data available
Density	: 0,68 g/cm ³
Solubility(ies)	
Water solubility	: immiscible
Solubility in other solvents	: Not applicable
Partition coefficient: n-octanol/water	: No data available

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Auto-ignition temperature : 200 °C

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

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.

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.

10.5 Incompatible materials

Materials to avoid : Acids
Alkali metals
Amines
Oxidizing agents
strong bases
strong reducing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide and carbon monoxide
Hydrocarbons

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:

PENTANE NORMAL:

Acute oral toxicity : LD 50 (Rat): > 2.000 mg/kg
 Assessment: Not classified as acutely toxic by ingestion under GHS.
 Remarks: No mortality observed at this dose.

Acute inhalation toxicity : LC 50 (Rat): > 20 mg/l
 Exposure time: 4 h
 Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Components:

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 23,3 mg/l
 Exposure time: 4 h
 Test atmosphere: vapour
 Method: OECD Test Guideline 403
 Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rat, male and female): > 2.800 - 3.100 mg/kg

Components:

PROPANE:

Acute inhalation toxicity : LC50 (Rat): 1.237 mg/l
 Exposure time: 2 h
 Test atmosphere: gas
 Assessment: Not classified as acutely toxic by inhalation under GHS.
 Remarks: Information given is based on data obtained from similar substances.

Components:

BUTANE NORMAL:

Acute oral toxicity : LD 50 (Rat): > 5 g/kg

Acute inhalation toxicity : LC 50 (Rat): 658 mg/l

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Exposure time: 4 h

Acute dermal toxicity : LD 50 (Rabbit): > 3,16 g/kg

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Components:**PENTANE NORMAL:**

Result: Mildly irritating to skin

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Slightly irritating to skin

BUTANE NORMAL:

Result: Possibly irritating to skin

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:**PENTANE NORMAL:**

Result: Mildly irritating to eyes

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

Species: Rabbit

Result: Slightly irritating to eyes

BUTANE NORMAL:

Result: Mildly irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:**Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:**

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

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Method: OECD Test Guideline 406

Germ cell mutagenicity

Not classified based on available information.

Components:**Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:**

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

: Method: OECD Test Guideline 473 (In vitro Mammalian
Chromosome Aberration Test)
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Test species: Mouse
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

PROPANE:

Genotoxicity in vitro : Test Type: Ames test
Test species: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative
Remarks: Information given is based on data obtained from
similar substances.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause drowsiness or dizziness.

Components:**PENTANE NORMAL:**

Assessment: May cause drowsiness or dizziness.

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

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Aspiration toxicity

May be fatal if swallowed and enters airways.

Components:**PENTANE NORMAL:**

May be fatal if swallowed and enters airways.

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

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:**

Pentane

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,26 mg/l
Exposure time: 96 hToxicity to daphnia and other : EC50 (Water flea (Daphnia magna)): > 1 - 10 mg/l
aquatic invertebrates Exposure time: 48 hToxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 10,7
mg/l
Exposure time: 72 h

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 3 - 10 mg/l
Exposure time: 96 h
Test Type: semi-static test
Test substance: WAF
Method: OECD Test Guideline 203Toxicity to daphnia and other : EL50 (Water flea (Daphnia magna)): 4,6 - 10 mg/l
aquatic invertebrates Exposure time: 48 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 202

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): 10 - 30

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mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,17 mg/l
Exposure time: 21 d
Species: Water flea (Daphnia magna)
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 211

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

12.2 Persistence and degradability

Components:

Pentane
Biodegradability : Result: Readily biodegradable
Biodegradation: 87 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
Biodegradability : Inoculum: activated sludge
Biodegradation: 98 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Information given is based on data obtained from similar substances.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: The bioaccumulation potential cannot be determined.

Components:

Pentane
Partition coefficient: n-octanol/water : log Pow: 3,39

Propane
Partition coefficient: n-octanol/water : log Pow: 2,36

Butane

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Partition coefficient: n-
octanol/water : log Pow: 2,89

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., Harmful to aquatic life with long lasting effects.

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.
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

SECTION 14: Transport information

14.1 UN number

ADR: Not dangerous goods

ADNR: Not dangerous goods

RID: Not dangerous goods


INTERNATIONAL MARITIME DANGEROUS GOODS: UN1950

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: UN1950

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: UN1950

14.2 UN proper shipping name

ADR: Not dangerous goods

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ADNR: Not dangerous goods

RID: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: AEROSOLS

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Aerosols, flammable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Aerosols, flammable

14.3 Transport hazard class(es)

ADR: Not dangerous goods

ADNR: Not dangerous goods

RID: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: 2.1

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: 2.1

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: 2.1

14.4 Packing group

ADR: Not dangerous goods

ADNR: Not dangerous goods

RID: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS:

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:

14.5 Environmental hazards

ADR: Environmentally hazardous

ADNR: Environmentally hazardous

RID: Environmentally hazardous

INTERNATIONAL MARITIME DANGEROUS GOODS: Environmentally hazardous, MARINE POLLUTANT

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Environmentally hazardous

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: 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

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.

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SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 57) : 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) : Butane
Pentane
Propane

Regulation (EC) No 850/2004 on persistent organic pollutants : 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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2	ENVIRONMENTAL HAZARDS	200 t	500 t
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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:

TSCA : On TSCA Inventory

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

AUSTR On the inventory, or in compliance with the inventory

ENCS Not in compliance with the inventory

KECL On the inventory, or in compliance with the inventory

IECSC On the inventory, or in compliance with the inventory

PICCS On the inventory, or in compliance with the inventory

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Inventories

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

15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information

Further information

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Full text of H-Statements referred to under sections 2 and 3.

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Further information

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 Ashland's Environmental Health and Safety Department (+31 10 497 5000).

Sources of key data used to compile the Safety Data Sheet

Ashland 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

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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.
 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-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