



# SAFETY DATA SHEET

Version: 4.0

Revision Date: 07.10.2021

Print Date: 25/10/2022

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

Product code : 866895

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

Recommended use : Gear and lubricating oil.

### 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  
+36 80 201 199

### 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)

Long-term (chronic) aquatic hazard,  
Category 3

H412: Harmful to aquatic life with long lasting  
effects.

### 2.2 Label elements

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

Hazard statements : H412

Harmful to aquatic life with long lasting  
effects.

Precautionary statements : P101

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



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P102 Keep out of reach of children.  
 P103 Read carefully and follow all instructions.  
**Prevention:**  
 P273 Avoid release to the environment.  
**Disposal:**  
 P501 Dispose of contents/ container to an approved waste disposal plant.

### Additional Labelling:

EUH208 Contains Alkylamine trialkyldithiophosphate phosphate. May produce an allergic reaction.

### 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

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8 265-158-7 01-2119487077-29-xxxx	Asp. Tox.1; H304	>= 60,00 - < 70,00
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1 01-2119484627-25-xxxx	Asp. Tox.1; H304	>= 1,00 - < 2,50
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	Asp. Tox.1; H304	>= 1,00 - < 2,50
Alkylamine trialkyldithiophosphate phosphate		Acute Tox.4; H302 Eye Dam.1; H318 Skin Sens.1B; H317 Aquatic Chronic2; H411	>= 0,50 - < 1,00
(Z)-Octadec-9-enylamine	112-90-3 204-015-5	Acute Tox.4; H302 Skin Corr.1B; H314	>= 0,10 - < 0,25



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		Eye Dam.1; H318 STOT SE3; H335 STOT RE2; H373 STOT RE2; H373 Asp. Tox.1; H304 Aquatic Acute1; H400 Aquatic Chronic1; H410	
Substances with a workplace exposure limit :			
Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7 01-2119484627-25-xxxx		>= 80,00 - < 90,00
Distillates (petroleum), hydrotreated heavy paraffinic			>= 2,50 - < 5,00

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.

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

- Symptoms : No symptoms known or expected.



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## 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  
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

### 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.

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## 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 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

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.

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## 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

Requirements for storage areas and containers : Containers which are opened must be carefully resealed and  
kept upright to prevent leakage.

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

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



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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	TWA (Mist)	5 mg/m3 Mist	HU OEL
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	TWA (Mist)	5 mg/m3 Mist	HU OEL
Distillates (petroleum), hydrotreated heavy paraffinic		CEIL (Mist)	5 mg/m3 Mist	HU OEL
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	TWA (Mist)	5 mg/m3 Mist	HU OEL
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9, 64742-56-9	TWA (Mist)	5 mg/m3 Mist	HU OEL

## 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.

No personal respiratory protective equipment normally required.



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## 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
pH	:	Not applicable
Pour point	:	< -42 °C
Boiling point/boiling range	:	No data available
Flash point	:	222 °C Method: Cleveland open cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0,8638 g/cm <sup>3</sup> (15,6 °C)
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-	:	No data available



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octanol/water

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 47,5 mm<sup>2</sup>/s (40 °C)

Oxidizing properties : No data available

## 9.2 Other information

Self-ignition : 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 : Product will not undergo hazardous polymerization.

### 10.4 Conditions to avoid

Conditions to avoid : excessive heat

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation  
Skin contact

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Eye Contact  
Ingestion

## Acute toxicity

Not classified based on available information.

### Components:

#### HEAVY PARAFFINIC DISTILLATE:

Acute oral toxicity : LD50 (Rat): > 15 g/kg  
Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg

### Components:

#### Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Acute inhalation toxicity : LC50 (Rat): > 5,53 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity  
Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

### Components:

#### Alkylamine trialkyldithiophosphate phosphate:

Acute oral toxicity : Assessment: The component/mixture is classified as acute oral toxicity, category 4.

### Components:

#### OLEYLAMINE:

Acute oral toxicity : LD50 (Rat): 1.950 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

### Components:

#### HEAVY PARAFFINIC DISTILLATE:

Acute oral toxicity : LD50 (Rat): > 15 g/kg  
Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg



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## Skin corrosion/irritation

Not classified based on available information.

### Components:

#### HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

#### HEAVY PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

#### Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified:

Species: Rabbit

Result: Slight, transient irritation

#### OLEYLAMINE:

Result: Corrosive after 3 minutes to 1 hour of exposure

#### HEAVY PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

#### HEAVY PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

## Serious eye damage/eye irritation

Not classified based on available information.

### Product:

Remarks: Unlikely to cause eye irritation or injury.

### Components:

#### HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

#### HEAVY PARAFFINIC DISTILLATE:

Result: No eye irritation

#### Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified:

Species: Rabbit

Result: Slight, transient irritation

#### Alkylamine trialkyldithiophosphate phosphate:

Result: Corrosive

#### OLEYLAMINE:

Result: Corrosive



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## HEAVY PARAFFINIC DISTILLATE:

Result: No eye irritation

## HEAVY PARAFFINIC DISTILLATE:

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:

### Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified:

Test Type: Buehler Test

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

### Alkylamine trialkyldithiophosphate phosphate:

Assessment: The product is a skin sensitiser, sub-category 1B.

## Germ cell mutagenicity

Not classified based on available information.

## Carcinogenicity

Not classified based on available information.

## Components:

### HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Carcinogenicity - Assessment : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

### HEAVY PARAFFINIC DISTILLATE:

Carcinogenicity - Assessment : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

### HEAVY PARAFFINIC DISTILLATE:

Carcinogenicity - Assessment : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

## Reproductive toxicity

Not classified based on available information.

## STOT - single exposure

Not classified based on available information.



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## STOT - repeated exposure

Not classified based on available information.

### Components:

#### OLEYLAMINE:

Target Organs: Gastro-intestinal system, Liver, Immune system  
Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

## Aspiration toxicity

Not classified based on available information.

### Components:

#### HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

#### HEAVY PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

#### Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified:

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.

#### OLEYLAMINE:

May be fatal if swallowed and enters airways.

#### HEAVY PARAFFINIC DISTILLATE:

No aspiration toxicity classification

## Further information

### Product:

Remarks: No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

Distillates (petroleum), hydrotreated heavy paraffinic

Toxicity to fish : LL50 (Fish): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EL50 (Aquatic invertebrates): > 10.000 mg/l



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aquatic invertebrates	Exposure time: 48 h
Toxicity to algae	: EL50 (Algae, algal mat (Algae)): > 100 mg/l Exposure time: 72 h
Toxicity to fish (Chronic toxicity)	: NOEC: 10 mg/l Species: Fish
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 10 mg/l Species: Aquatic invertebrates

## Distillates (petroleum), solvent-dewaxed light paraffinic

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
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 daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEL: 10 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: semi-static test Test substance: WAF Method: OECD Test Guideline 211

## Alkylamine trialkyldithiophosphate phosphate Ecotoxicology Assessment

Short-term (acute) aquatic hazard	: Toxic to aquatic life.
Long-term (chronic) aquatic hazard	: Toxic to aquatic life with long lasting effects.



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## (Z)-Octadec-9-enylamine

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 0,11 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0,011 mg/l Exposure time: 48 h
Toxicity to algae	: EC50 (Desmodesmus subspicatus (green algae)): 0,083 mg/l Exposure time: 72 h Remarks: Information given is based on data obtained from similar substances.  NOEC (Pseudokirchneriella subcapitata (green algae)): 0,01 mg/l Exposure time: 96 h
M-Factor (Short-term (acute) aquatic hazard)	: 10
M-Factor (Long-term (chronic) aquatic hazard)	: 10

## Distillates (Petroleum), Hydrotreated Heavy Paraffinic

Toxicity to fish	: LL50 (Fish): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EL50 (Aquatic invertebrates): > 10.000 mg/l Exposure time: 48 h
Toxicity to algae	: EL50 (Algae, algal mat (Algae)): > 100 mg/l Exposure time: 72 h
Toxicity to fish (Chronic toxicity)	: NOEC: 10 mg/l Species: Fish
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 10 mg/l Species: Aquatic invertebrates

## Ecotoxicology Assessment

Short-term (acute) aquatic hazard	: Not classified based on available information.
Long-term (chronic) aquatic hazard	: Not classified based on available information.



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## 12.2 Persistence and degradability

### Components:

Distillates (petroleum), solvent-dewaxed light paraffinic

Biodegradability : Result: **Inherently biodegradable**  
Biodegradation: **31 %**  
Exposure time: **28 d**  
Method: **OECD Test Guideline 301B**

(Z)-Octadec-9-enylamine

Biodegradability : Result: **Not readily biodegradable.**  
Biodegradation: **44 %**  
Exposure time: **28 d**

## 12.3 Bioaccumulative potential

### Components:

(Z)-Octadec-9-enylamine

Bioaccumulation : Species: **Fish**  
Bioconcentration factor (BCF): **> 500**

Partition coefficient: n-octanol/water : log Pow: **estimated > 4**

Distillates (Petroleum), Hydrotreated Heavy Paraffinic

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

## 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..

## 12.6 Other adverse effects

### Product:

Further information : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at



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Additional ecological information : levels of 0.1% or higher.  
: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful 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.

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.

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## SECTION 14: Transport information

### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 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.





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## 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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
DISTILLATES (PETROLEUM),  
HYDROTREATED HEAVY  
PARAFFINIC (Number on list 28)  
HYDROTREATED LIGHT  
PARAFFINIC DISTILLATE (Number on list 28)  
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified (Number on list 28)  
DISTILLATES (PETROLEUM),  
SOLVENT-DEWAXED HEAVY  
PARAFFINIC (Number on list 28)

Directive 96/82/EC does not apply

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
34	Petroleum products: (a) gasolines and naphthas,	2.500 t	25.000 t



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(b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

### Other regulations:

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:

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



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## Inventories

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

## 15.2 Chemical safety assessment

No data available

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## SECTION 16: Other information

### Further information

Internal information : 000000221051

### Full text of H-Statements

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
<b>H318</b>	Causes serious eye damage.
<b>H335</b>	May cause respiratory irritation.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H411</b>	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.



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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.  
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



## SAFETY DATA SHEET

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RID : Regulation Concerning the International Transport of Dangerous Goods by Rail  
S-phrase: Safety phrase  
WGK : German Water Hazard Class