

Interflon Lube EP**Version number:**

1.2

Replaces version:

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Section 1 – Identification**1.1 Product identifier**

Trade name

Interflon Lube EP**1.2 Recommended use of the chemical and restrictions on use**

Relevant identified uses

Industrial use

Scope

lubricant

1.3 Manufacturer or supplier details

Interflon BV
Belder 47
4704 RK Roosendaal
Netherlands

Telephone: +31 (0)165 553911

e-mail: Service@Interflon.com

Website: www.Interflon.com

Supplier (importer)

Interflon Singapore
20 Collyer Quay #09-01
Singapore 049319
Telephone: +65809 04275

e-mail (competent person)

singapore@interflon.com

1.4 Emergency phone number

Poison centre			
Name	Street	City	Telephone
Drug and Poison Information Centre (DPIC) Singapore		Singapore	+65 6423 9119 (Monday to Friday from 8:30am to 17:00pm)

Section 2 – Hazard identification**2.1 Classification of the substance or mixture**

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.6	flammable liquid	4	Flam. Liq. 4	H227
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

2.2 GHS label elements, including precautionary statements

Labelling

- Signal word.

warning

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- Pictograms

GHS07



- Hazard statements

H227

Combustible liquid.

H319

Causes serious eye irritation.

- Precautionary statements

P210

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

P280

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313

If eye irritation persists: Get medical advice/attention.

P370+P378

In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.

P501

Dispose of contents/container to industrial combustion plant.

2.3 Other hazards which do not result in classification

This material is combustible, but will not ignite readily. This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

Section 3 – Composition/Information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Product description

Mixture of mineral and vegetable oils, additives and Micpol®

Hazardous ingredients

Name of substance	Identifier	Wt%	Classification acc. to GHS	Notes
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	CAS No 64742-48-9	25 - < 50	Flam. Liq. 4 / H227 Asp. Tox. 1 / H304	L(b)
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine		1 - < 5	Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Acute 1 / H400	
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatisch	CAS No 64742-47-8	0 - < 1	Acute Tox. 3 / H331 Asp. Tox. 1 / H304	

Notes

L(b): The classification as a carcinogen is not required. The substance contains less than 3 % DMSO extract

Remarks

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

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sion: 15.04.2026**Section 4 – First-aid measures****4.1 Description of necessary first aid measures**

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms/effects, acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

none

Section 5 – Fire-fighting measures**5.1 Suitable extinguishing media**

Suitable extinguishing media

Water spray, Water mist, Fire extinguishing powder, Carbon dioxide (CO₂), Carbon dioxide (CO₂), Alcohol resistant foam

Unsuitable extinguishing media

Water jet

5.2 Specific hazards arising from the chemical

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Special protective actions for fire fighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance. Use suitable breathing apparatus.

Section 6 – Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and materials for containment and cleaning up

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sion: 15.04.2026**Advice on how to contain a spill**

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

Section 7 – Handling and storage**7.1 Precautions for safe handling****Recommendations****- Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.

Advice on general occupational hygiene

Remove contaminated clothing and protective equipment before entering eating areas. Never place chemicals in containers that are normally used for food or drink.

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

Store in accordance with local/regional/national/international regulations. Keep container tightly closed and in a well-ventilated place.

Managing of associated risks**- Explosive atmospheres**

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight. Keep in a cool place.

- Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

7.3 Specific end use(s)

See section 16 for a general overview.

Section 8 – Exposure controls / Personal protection**8.1 Control parameters / Occupational exposure limits**

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Relevant DNELs of components						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine		DNEL	0,8 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine		DNEL	4,2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine		PNEC	0,004 mg/l	aquatic organisms	freshwater	short-term (single instance)
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine		PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine		PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine		PNEC	0,057 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine		PNEC	0,006 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine		PNEC	1,71 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

General safety precautions

- Use only in well-ventilated areas.
- In case of insufficient ventilation, wear suitable respiratory equipment.
- Avoid contact with skin and eyes.
- Keep away from food, drink and animal feedingstuffs. Do not breathe gas/vapour/spray. Wash hands after use.

Individual protection measures (personal protective equipment)

Eye/face protection

- Work with safety glasses.

Skin protection

- Hand protection

Chemical protection gloves are suitable, which are tested according to EN 374. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Type of material. NBR: acrylonitrile-butadiene rubber. CR: chloroprene (chlorobutadiene) rubber. PVC: polyvinyl chloride.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

[In case of inadequate ventilation] wear respiratory protection. Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).

Environmental exposure controls

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Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

Section 9 – Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Colour	beige
Particle	not relevant (liquid)
Odour	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	186 °C at 1 atm
Flash point	65 °C at 1 atm not relevant
Evaporation rate	Not determined
Flammability (solid, gas)	not relevant, (fluid)

Explosive limits 0,6 vol% - 7 vol% non-combustible

- Lower explosion limit (LEL)	0,6 vol%
- Upper explosion limit (UEL)	7 vol%
Vapour pressure	0,05 kPa at 20 °C
Density	0,85 g/cm ³ at 20 °C
Vapour density	this information is not available
Relative density	information on this property is not available / not relevant
Solubility(ies)	easily soluble

Partition coefficient

- n-octanol/water (log KOW)	not relevant
Auto-ignition temperature	>200 °C (auto-ignition temperature (liquids and gases))

Viscosity

- Kinematic viscosity	27 cSt at 40 °C not relevant
Explosive properties	none
Oxidising properties	none

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9.2 Other information

there is no additional information

Section 10 – Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains re-active substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

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

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

Section 11 – Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine		inhalation: vapour	11 mg/l/4h
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine		inhalation: dust/mist	1,37 mg/l/4h
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatisch	64742-47-8	inhalation: vapour	>4,951 mg/l/4h

Acute toxicity of components

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine		oral	LD50	>5.000 mg/kg	rat
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine		inhalation: dust/mist	LC50	1,37 mg/l/4h	rat
Hydrocarbons, C12-C15, n-alkanes,	64742-47-8	oral	LD50	>15.000 mg/kg	rat

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Acute toxicity of components					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
isoalkanes, cyclics, < 2% aromatisch					
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatisch	64742-47-8	inhalation: va- pour	LC50	>4.951 mg/m ³ /4h	rat
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatisch	64742-47-8	inhalation: dust/mist	LC50	>9.300 mg/m ³ /4h	rat
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatisch	64742-47-8	dermal	LD50	>5.000 mg/kg	rabbit

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Section 12 – Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

12.7 Other adverse effects

Data are not available.

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Section 13 – Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

This article should be disposed of as hazardous waste. Please do not put it in your normal household waste. Dispose of this material and its container to hazardous or special waste collection point. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

Section 14 – Transport information

- | | |
|--|---|
| 14.1 UN number | not subject to transport regulations |
| 14.2 UN proper shipping name | not relevant |
| 14.3 Transport hazard class | none |
| 14.4 Packing group, if applicable | not assigned |
| 14.5 Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 Special precautions for users | There is no additional information. |
| 14.7 Transport in bulk according to IMO instruments | The cargo is not intended to be carried in bulk. |

Information for each of the UN Model Regulations

Inland transport of dangerous goods

Not subject to ADR.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

Section 15 – Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

There is no additional information.

National inventories

Country	Inventory	Status
CA	DSL	not all ingredients are listed
EU	REACH Reg.	all ingredients are listed or exempt from listing
US	TSCA	not all ingredients are listed

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Legend

DSL Domestic Substances List (DSL)

REACH Reg. REACH registered substances

TSCA Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

Section 16 – Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.2		Relevant identified uses: Industrial use	yes
1.3		Supplier (importer): Interflon Singapore 20 Collyer Quay #09-01 Singapore 049319 Telephone: +65809 04275	yes
1.3	e-mail (competent person): Service@Interflon.com	e-mail (competent person): singapore@interflon.com	yes
1.4		Poison centre: change in the listing (table)	yes
2.3	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$.	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.	yes
2.3	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.	yes
3.2		Hazardous ingredients: change in the listing (table)	yes
3.2		Remarks: For full text of Hazard- and EU Hazard-statements: see SECTION 16.	yes
5.1	Suitable extinguishing media: Water mist, Fire extinguishing powder, Carbon dioxide (CO ₂)	Suitable extinguishing media: Water spray, Water mist, Fire extinguishing powder, Carbon dioxide (CO ₂), Carbon dioxide (CO ₂), Alcohol resistant foam	yes
8.2	Hand protection: Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear protective gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Type of material. NBR: acrylonitrile-butadiene rubber. CR: chloroprene (chlorobutadiene) rubber. PVC: polyvinyl chloride.	Hand protection: Chemical protection gloves are suitable, which are tested according to EN 374. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Type of material. NBR: acrylonitrile-butadiene rubber. CR: chloroprene (chlorobutadiene) rubber. PVC: polyvinyl chloride.	yes
8.2	Respiratory protection: Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).	Respiratory protection: [In case of inadequate ventilation] wear respiratory protection. Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
9.1	Colour: light brown	Colour: beige	yes
9.1	Flash point: 65 °C at 1 atm	Flash point: 65 °C at 1 atm not relevant	yes
9.1	Explosive limits	Explosive limits: 0,6 vol% - 7 vol% non-combustible	yes
9.1		Relative density: information on this property is not available / not relevant	yes
9.1	Solubility(ies): not determined	Solubility(ies): easily soluble	yes
9.1	- n-octanol/water (log KOW): this information is not available	- n-octanol/water (log KOW): not relevant	yes
9.1	Kinematic viscosity: 27 cSt at 40 °C	Kinematic viscosity: 27 cSt at 40 °C not relevant	yes
9.1	Aerosols		yes
9.1	Components (flammable): 0 % 0 % by mass of the contents are flammable		yes
11.1		Acute toxicity estimate (ATE) of components: change in the listing (table)	yes
11.1		Acute toxicity of components: change in the listing (table)	yes
12.6	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.	yes
15.1		National inventories: change in the listing (table)	yes
16		Abbreviations and acronyms: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
ED	Endocrine disruptor
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid

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Abbr.	Descriptions of used abbreviations
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Singapore Standard SS 586 - 2: Specification for hazard communication for hazardous chemicals and dangerous goods - Globally harmonised system of classification and labelling of chemicals - Singapore's adaptations.

UN Recommendations on the Transport of Dangerous Good. Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H227	Combustible liquid.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.