Safety Data Sheet

acc. to SS 586 - 3

Interflon Metal Clean F (Aerosol)

Version number:	Date of issue	Revision:
1.4	17.02.2026	17.02.2026.

Section 1 – Identification

1.1 Product identifier

Trade name **Interflon Metal Clean F (Aerosol)**

1.2

Relevant identified uses Cleaning agent
Industrial use

cleaning agent

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
2.3	aerosols	1	Aerosol 1	H222,H229
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
4.1A	hazardous to the aquatic environment - acute hazard	1	Aquatic Acute 1	H400
4.1C	hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 GHS label elements, including precautionary statements

Labelling

- Signal word. danger

- Pictograms

GHS02, GHS07, GHS09

- Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurized container: may burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

- Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

- Hazardous ingredients for labelling Isopropanol, Hydrocarbons, C7-C9, isoalkanes

2.3 Other hazards which do not result in classification

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 ≥ 0,1%.

Endocrine disrupting properties

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

Section 3 – Composition/Information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Product description Mixture of solvents and additives

Hazardous ingredients

Name of substance	Identifier	Wt%	Classification acc. to GHS	Notes
Isopropanol	CAS No 67-63-0	50 – < 75	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	
Hydrocarbons, C7-C9, isoalkanes	CAS No 64741-66-8	25 – < 50	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336	P(a)

Name of substance	Identifier	Wt%	Classification acc. to GHS	Notes
			Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411	
carbon dioxide	CAS No 124-38-9	1 – < 5	Press. Gas L / H280	

Notes

P(a): The classification as a carcinogen or mutagen is mandatory. The substance contains at least 0,1 % w/w benzene (EINECS No 200-753-7)

Remarks

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

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. In case of respiratory tract irritation, consult a physician. 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, Alcohol resistant foam, Fire extinguishing powder, 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.

Hazardous combustion products

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. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and materials for containment and cleaning up

Advice on how to contain a spill

Covering of drains

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. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

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

- Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight. Keep in a cool place.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

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

Occupational exposure limit values (Workplace Exposure Limits)

Occupational exposure limit values (Workplace Exposure Limits)											
Country	**Name of agent**	**CAS No**	**Identifier**	**TWA [ppm]**	**TWA [mg/m³]**	**STEL [ppm]**	**STEL [mg/m³]**	**Ceiling-C [ppm]**	**Ceiling-C [mg/m³]**	**Notation**	**Source**
SG	carbon dioxide	124-38-9	PEL	5.000	9.000	30.000	54.000				G.N. No. S 134/2006
SG	isopropyl alcohol	67-63-0	PEL	400	983	500	1.230				G.N. No. S 134/2006

Notation

Ceiling-C	ceiling value is a limit value above which exposure should not occur
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components						
Name of substance	**CAS No**	**Endpoint**	**Threshold level**	**Protection goal, route of exposure**	**Used in**	**Exposure time**
Isopropanol	67-63-0	DNEL	500 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Isopropanol	67-63-0	DNEL	1.000 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
Isopropanol	67-63-0	DNEL	888 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hydrocarbons, C7-C9, isoalkanes	64741-66-8	DNEL	2.035 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Hydrocarbons, C7-C9, isoalkanes	64741-66-8	DNEL	773 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**
Isopropanol	67-63-0	PNEC	140,9 mg/l	aquatic organisms	freshwater	short-term (single instance)
Isopropanol	67-63-0	PNEC	140,9 mg/l	aquatic organisms	marine water	short-term (single instance)
Isopropanol	67-63-0	PNEC	2.251 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Isopropanol	67-63-0	PNEC	552 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Isopropanol	67-63-0	PNEC	552 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Isopropanol	67-63-0	PNEC	28 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

Use protective eyewear to guard against splash of liquids.

Skin protection

- Hand protection

Not required.

- Other protection measures

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

Respiratory protection

Not required.

Environmental exposure controls

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, gaseous (spray aerosol)
Colour	colourless

Particle	not relevant (aerosol)

Odour	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	<-20 °C
Initial boiling point and boiling range	-44,5 °C
Flash point	-9 °C not relevant
Evaporation rate	2,3 (n-butyl acetate = 1)
Flammability (solid, gas)	flammable aerosol in accordance with GHS criteria

Explosive limits 0,8 vol% - 7,7 vol% non-combustible

- Lower explosion limit (LEL)	0,8 vol%
- Upper explosion limit (UEL)	7,7 vol%
Vapour pressure	6.500 hPa at 20 °C
Density	0,66 $^{g}/_{cm^3}$ 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

- Water solubility	1 $^{g}/_{l}$ at 20 °C

Partition coefficient

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

Viscosity

- Kinematic viscosity	≤2,5 $^{mm^2}/_{s}$ at 20 °C not relevant not relevant
- Dynamic viscosity	2,43 mPa s at 20 °C
Explosive properties	none
Oxidising properties	none
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 reactive substance(s). 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
Do not spray on an open flame or other ignition source. Keep away from heat.

Hints to prevent fire or explosion
Protect from sunlight.

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 of components					
Name of substance	**CAS No**	**Exposure route**	**Endpoint**	**Value**	**Species**
Hydrocarbons, C7-C9, isoalkanes	64741-66-8	oral	LD50	>7.100 – 7.800 $^{mg}/_{kg}$	rat

Skin corrosion/irritation
Causes skin irritation.

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
May cause drowsiness or dizziness.

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
Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture

Aquatic toxicity (acute) of components					
Name of substance	**CAS No**	**Endpoint**	**Value**	**Species**	**Exposure time**
Isopropanol	67-63-0	LC50	10.000 $^{mg}/_{l}$	fish	96 h
Hydrocarbons, C7-C9, isoalkanes	64741-66-8	LL50	18,4 $^{mg}/_{l}$	fish	96 h
Hydrocarbons, C7-C9, isoalkanes	64741-66-8	LC50	0,11 $^{mg}/_{l}$	fish	96 h
Hydrocarbons, C7-C9, isoalkanes	64741-66-8	EL50	2,4 $^{mg}/_{l}$	aquatic invertebrates	48 h
Hydrocarbons, C7-C9, isoalkanes	64741-66-8	EC50	0,4 $^{mg}/_{l}$	aquatic invertebrates	48 h

Aquatic toxicity (chronic) of components of the mixture

Aquatic toxicity (chronic) of components					
Name of substance	**CAS No**	**Endpoint**	**Value**	**Species**	**Exposure time**
Hydrocarbons, C7-C9, isoalkanes	64741-66-8	EL50	1,6 $^{mg}/_{l}$	aquatic invertebrates	21 d
Hydrocarbons, C7-C9, isoalkanes	64741-66-8	EC50	0,23 $^{mg}/_{l}$	aquatic invertebrates	21 d

12.2 Persistence and degradability

Degradability of components						
Name of substance	**CAS No**	**Process**	**Degradation rate**	**Time**	**Method**	**Source**
Isopropanol	67-63-0	oxygen depletion	53 %	5 d		ECHA
Hydrocarbons, C7-C9, isoalkanes	64741-66-8	oxygen depletion	10,5 %	15 d		ECHA

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 ≥ 0,1%.

12.7 Other adverse effects
Data are not available.

Section 13 – Disposal considerations

13.1 Waste treatment methods

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 contents/container in accordance with local/regional/national/international regulations. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste (Basel Convention)

Properties of waste which render it hazardous

H3 Flammable liquids

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

ADR	UN 1950
IMDG-Code	UN 1950
ICAO-TI	UN 1950

14.2 UN proper shipping name

ADR	AEROSOLS
IMDG-Code	AEROSOLS
ICAO-TI	Aerosols, flammable

14.3 Transport hazard class

ADR	2
IMDG-Code	2.1
ICAO-TI	2.1

14.4 Packing group, if applicable not assigned

14.5 Environmental hazards hazardous to the aquatic environment

Environmentally hazardous substance (aquatic environment): Hydrocarbons, C7-C9, isoalkanes

14.6 Special precautions for users

Provisions for dangerous goods (ADR) should be complied within the premises.

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

Classification code	5F
Danger label(s)	2.1

Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	190, 327, 344, 625
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	D

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant	yes (hazardous to the aquatic environment)
Danger label(s)	2.1

Special provisions (SP)	63, 190, 277, 327, 344, 381, 959
Excepted quantities (EQ)	E0

Limited quantities (LQ)	1 L
EmS	F-D, S-U
Stowage category	-

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

Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	2.1

Special provisions (SP)	A145, A167
Excepted quantities (EQ)	E0
Limited quantities (LQ)	30 kg

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	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)

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	Scope: cleaning agent		yes
1.2		Relevant identified uses: Cleaning agent Industrial usecleaning agent	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:	yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
		change in the listing (table)	
2.2		- Precautionary statements: 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 ≥ 0,1%.	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.	yes
2.3	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0,1%.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
3.2		Hazardous ingredients: change in the listing (table)	yes
3.2	Regulation 648/2004/EC on detergents		yes
3.2		Regulation 648/2004/EC on detergents: 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, Alcohol resistant foam, Fire extinguishing powder	Suitable extinguishing media: Water spray, Water mist, Alcohol resistant foam, Fire extinguishing powder, Carbon dioxide (CO2), Alcohol resistant foam	yes
5.2	Specific hazards arising from the chemical	Specific hazards arising from the chemical: In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.	yes
7.1	- Measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Use only in well-ventilated areas.	- Measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.	yes
8.1	Occupational exposure limit values (Workplace Exposure Limits): not relevant	Occupational exposure limit values (Workplace Exposure Limits)	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.2	Eye/face protection: Work with safety glasses.	Eye/face protection: Use protective eyewear to guard against splash of liquids.	yes
8.2	Hand protection: 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: Not required.	yes
8.2	Respiratory protection: Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).	Respiratory protection: Not required.	yes
9.1	Flash point: -9 °C	Flash point: -9 °C not relevant	yes
9.1	Explosive limits	Explosive limits: 0,8 vol% - 7,7 vol% non-combustible	yes
9.1	Density:	Density:	yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
	0,662 $^{g}/_{cm^3}$ at 20 °C	0,66 $^{g}/_{cm^3}$ at 20 °C	
9.1		Relative density: information on this property is not available / not relevant	yes
9.1	Solubility(ies)	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: ≤2,5 $^{mm^2}/_{s}$ at 20 °C	Kinematic viscosity: ≤2,5 $^{mm^2}/_{s}$ at 20 °C not relevant not relevant	yes
9.1	Aerosols		yes
9.1	Components (flammable): 98,5 % 98,5 % by mass of the contents are flammable		yes
11.1		Acute toxicity of components: change in the listing (table)	yes
12.1		Aquatic toxicity (acute) of components of the mixture	yes
12.1		Aquatic toxicity (acute) of components: change in the listing (table)	yes
12.1		Aquatic toxicity (chronic) of components of the mixture	yes
12.3		Bioaccumulative potential of components: change in the listing (table)	yes
12.6	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0,1%.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
13.1	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.	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 contents/container in accordance with local/regional/national/international regulations. Handle contaminated packages in the same way as the substance itself.	yes
14.3	ADR: 2 (2.1)	ADR: 2	yes
14.7	Danger label(s): 2.1, fish and tree	Danger label(s): 2.1	yes
14.7	Danger label(s): 2.1, fish and tree	Danger label(s): 2.1	yes
15.1		National inventories: change in the listing (table)	yes
16		Abbreviations and acronyms: change in the listing (table)	yes
16		List of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
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
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
ED	Endocrine disruptor
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
G.N. No. S 134/2006	Workplace Safety and Health (General Provisions) Regulations
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
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	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
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
PBT	Persistent, Bioaccumulative and Toxic
PEL	Workplace exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Press. Gas	Gas under pressure
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit

Abbr.	Descriptions of used abbreviations
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
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
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurized container: may burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Disclaimer

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