

Interflon Clean Special

Version number:
8.0
Replaces version: 7:

Date of issue
2025-06-10

Revision:
2025-06-10.

1 Identification

1.1 Product identifier

Trade name **Interflon Clean Special**

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

Scope lubricant

1.3 Details of the supplier of the safety data sheet

Interflon BV
Belder 47
4704 RK Roosendaal
Netherlands

Telephone: +31 (0)165 553911
e-mail: Service@Interflon.com
Website: www.Interflon.com

e-mail (competent person) Service@Interflon.com

1.4 Emergency telephone number

Poison center			
Name	Street	City	Telephone
Poison Control Center		Ontario	1-800-268-9017 24 hours a day, 7 days a week

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
2.16	substance or mixture corrosive to metals	1	Met. Corr. 1	H290
3.2	skin corrosion/irritation	1	Skin Corr. 1	H314
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

Labeling

- Signal word. danger

- Pictograms

GHS05



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- Hazard statements
 - H227 Combustible liquid.
 - H290 May be corrosive to metals.
 - H314 Causes severe skin burns and eye damage.
- Precautionary statements
 - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 - P234 Keep only in original packaging.
 - P260 Do not breathe dusts or mists.
 - P280 Wear eye protection/face protection.
 - P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P310 Immediately call a POISON CENTER/doctor.
 - P321 Specific treatment (see on this label).
 - P363 Wash contaminated clothing before reuse.
 - P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
 - P390 Absorb spillage to prevent material damage.
 - P403 Store in a well-ventilated place.
 - P405 Store locked up.
 - P406 Store in a corrosion resistant container with a resistant inner liner.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Hazardous ingredients for labelling

Phosphoric Acid 31%, Hydrochloric Acid, Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., Iso-tridecanol, ethoxylated

2.3 Other hazards

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) in a concentration of $\geq 0.1\%$.

3 Composition/ Information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Product description

Mixture of organic acids, surface-active substances and water

Hazardous ingredients

Name of substance	Identifier	Wt%	Classification acc. to GHS	Notes
Phosphoric Acid 31%	CAS No 7664-38-2	30 – < 60	Skin Corr. 1B / H314 Eye Dam. 1 / H318	B(a)
2-butoxyethanol	CAS No 111-76-2	5 – < 10	Flam. Liq. 4 / H227 Acute Tox. 4 / H302 Acute Tox. 3 / H331 Skin Irrit. 2 / H315	

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Notes
			Eye Irrit. 2 / H319	
Isotridecanol, ethoxylated	CAS No 9043-30-5	1 – < 5	Eye Dam. 1 / H318	
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	CAS No 85536-14-7	1 – < 5	Acute Tox. 4 / H302 Skin Corr. 1C / H314 Eye Dam. 1 / H318	
Citric acid	CAS No 77-92-9	1 – < 5	Eye Irrit. 2 / H319	
Hydrochloric Acid	CAS No 7647-01-0	1 – < 5	Press. Gas C / H280 Met. Corr. 1 / H290 Acute Tox. 3 / H331 Skin Corr. 1A / H314 Eye Dam. 1 / H318	U(b)

Notes

B(a): The classification refers to an aqueous solution

U(b): The allocation to the group 'compressed gas' is based on the physical state in which the gas is packaged

Regulation 648/2004/EC on detergents

Wt%	Constituents	Weight % content (or range)
≥30%	phosphates	30 % and more
< 5 %	phosphonates anionic surfactants non-ionic surfactants	less than 5 %

Remarks

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

4 First-aid measures

4.1 Description of 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 and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

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5 Fire-fighting measures**5.1 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 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors 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. Substance or mixture corrosive to metals.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂), Phosphorus oxides (PxOy)**5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Coordinate 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.

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 vapors/dust/aerosols/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 material for containment and cleaning up

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.

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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. Never add water to this product. 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. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

- Handling of incompatible substances or mixtures

Do not mix with alkali.

- Keep away from

Caustic solutions

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.

- Corrosive conditions

Store in corrosive resistant container with a resistant inner liner.

- 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.

- 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.

8 Exposure controls/ Personal protection**8.1 Control parameters**

Occupational exposure limit values (Workplace Exposure Limits)

not relevant

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Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
CA	2-butoxyethanol	111-76-2	PEV/VE A	20							Regulation OHS
CA	2-butoxyethanol (EGBE)	111-76-2	OEL (BC)	20							"BC Regulation"
CA	2-butoxyethanol (EGBE)	111-76-2	OEL (ON-MoL)	20							MoL
CA	2-butoxyethanol (ethylene glycol monobutyl ether)	111-76-2	OEL (AB)	20	97						OHS Code
CA	hydrogen chloride	7647-01-0	OEL (AB)					2	3		OHS Code
CA	hydrogen chloride	7647-01-0	OEL (BC)					2			"BC Regulation"
CA	hydrogen chloride	7647-01-0	OEL (ON-MoL)					2			MoL
CA	hydrogen chloride	7647-01-0	PEV/VE A					2			Regulation OHS
CA	phosphoric acid	7664-38-2	OEL (AB)		1		3				OHS Code
CA	phosphoric acid	7664-38-2	OEL (BC)		1		3				"BC Regulation"
CA	phosphoric acid	7664-38-2	OEL (ON-MoL)		1		3				MoL
CA	phosphoric acid	7664-38-2	PEV/VE A		1		3				Regulation OHS

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
Phosphoric Acid 31%	7664-38-2	DNEL	2.92 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
2-butoxyethanol	111-76-2	DNEL	125 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-butoxyethanol	111-76-2	DNEL	89 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects

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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
2-butoxyethanol	111-76-2	DNEL	98 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-butoxyethanol	111-76-2	DNEL	1,091 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
2-butoxyethanol	111-76-2	DNEL	246 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	DNEL	7.6 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	DNEL	119 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hydrochloric Acid	7647-01-0	DNEL	8 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Hydrochloric Acid	7647-01-0	DNEL	15 mg/m ³	human, inhalatory	worker (industry)	acute - local effects

Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
2-butoxyethanol	111-76-2	PNEC	8.8 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-butoxyethanol	111-76-2	PNEC	0.88 mg/l	aquatic organisms	marine water	short-term (single instance)
2-butoxyethanol	111-76-2	PNEC	463 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-butoxyethanol	111-76-2	PNEC	34.6 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-butoxyethanol	111-76-2	PNEC	3.46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-butoxyethanol	111-76-2	PNEC	2.33 mg/kg	terrestrial organisms	soil	short-term (single instance)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	PNEC	0.268 mg/l	aquatic organisms	freshwater	short-term (single instance)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	PNEC	0.027 mg/l	aquatic organisms	marine water	short-term (single instance)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	PNEC	3.43 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	PNEC	8.1 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	PNEC	6.8 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	PNEC	35 mg/kg	terrestrial organisms	soil	short-term (single instance)
Citric acid	77-92-9	PNEC	0.44 mg/l	aquatic organisms	freshwater	short-term (single instance)

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Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
						instance)
Citric acid	77-92-9	PNEC	0.044 mg/l	aquatic organisms	marine water	short-term (single instance)
Citric acid	77-92-9	PNEC	1,000 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Citric acid	77-92-9	PNEC	34.6 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Citric acid	77-92-9	PNEC	3.46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Citric acid	77-92-9	PNEC	33.1 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/vapor/spray. Wash hands after use.

Individual protection measures (personal protective equipment)

Eye/face protection



Work with safety glasses. Use safety goggle with side protection.

Skin protection

- Hand protection

Chemical protection gloves are suitable, which are tested according to EN 374. Wear suitable gloves. NBR: acrylonitrile-butadiene rubber.

- 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 insufficient ventilation, wear suitable respiratory equipment. Type : A (against organic gases and vapors with a boiling point of > 65 °C , color code: Brown).

Environmental exposure controls

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

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	colorless
Odor	characteristic
Melting point/freezing point	not determined

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Boiling point or initial boiling point and boiling range	100 °C
Flammability	flammable liquid in accordance with GHS criteria
Lower and upper explosion limit	not determined
Flash point	67 °C at 1,013 hPa
Auto-ignition temperature	230 °C (auto-ignition temperature (liquids and gases))
Decomposition temperature	not relevant
pH (value)	<1 (acid)
Kinematic viscosity	not determined
Solubility(ies)	not determined

Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapor pressure	0.8 hPa at 20 °C
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Density and/or relative density

Density	1.17 – 1.23 g/cm ³ at 20 °C
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)
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9.2 Other information

Information with regard to physical hazard classes	there is no additional information
Other safety characteristics	there is no additional information

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. Substance or mixture corrosive to metals.

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

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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

Oxidizers

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

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.

GHS of the United Nations, annex 4: May be harmful if inhaled.

Acute toxicity estimate (ATE) of components			
Name of substance	CAS No	Exposure route	ATE
2-butoxyethanol	111-76-2	oral	1,414 mg/kg
2-butoxyethanol	111-76-2	inhalation: vapour	3 mg/l/4h
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	oral	1,470 mg/kg
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	85536-14-7	dermal	>2,000 mg/kg
Citric acid	77-92-9	dermal	>2,000 mg/kg
Hydrochloric Acid	7647-01-0	inhalation: vapour	3 mg/l/4h

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

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.

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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 propertiesDoes not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.**12.7 Other adverse effects**

Data are not available.

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/packages

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

Relevant provisions relating to waste (Basel Convention)

Properties of waste which render it hazardous

H8 Corrosives

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.

14 Transport information**14.1 UN number**

UN RTDG	UN 3264
IMDG-Code	UN 3264
ICAO-TI	UN 3264

14.2 UN proper shipping name

UN RTDG	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
IMDG-Code	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
ICAO-TI	Corrosive liquid, acidic, inorganic, n.o.s.
Technical name (hazardous ingredients)	Phosphoric Acid 31%, Benzenesulfonic acid, 4-

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C10-13-sec-alkyl derivs.

14.3 Transport hazard class(es)

UN RTDG	8
IMDG-Code	8
ICAO-TI	8

14.4 Packing group

UN RTDG	II
IMDG-Code	II
ICAO-TI	II

14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

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

Transport information - National regulations - Additional information (UN RTDG)

UN number	3264
Class	8
Packing group	II
Danger label(s)	8



Special provisions (SP)	274 (UN RTDG)
Excepted quantities (EQ)	E2 (UN RTDG)
Limited quantities (LQ)	1 L (UN RTDG)

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant	-
Danger label(s)	8



Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
EmS	F-A, S-B
Stowage category	B
Segregation group	1 - Acids

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

Danger label(s) 8



Special provisions (SP) A3
Exempted quantities (EQ) E2
Limited quantities (LQ) 0,5 L

15 Regulatory information

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

National regulations (United States)

Toxic Substance Control Act (TSCA) all ingredients are listed (ACTIVE) or exempt from listing

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities				
Name of substance	CAS No	Notes	Reportable quantity (pounds)	Threshold planning quantity (pounds)
Hydrochloric Acid	7647-01-0	f	5,000	500

Legend

f Chemical on the original list that does not meet toxicity criteria but because of its acute lethality, high production volume and known risk is considered chemical of concern ("Other chemicals"). (November 17, 1986, and February 15, 1990.)

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings			
Name of substance	CAS No	Remarks	Effective date
Hydrochloric Acid	7647-01-0	acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size	1987-01-01

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
Phosphoric Acid 31%	7664-38-2		1	5000 (2270)
Hydrochloric Acid	7647-01-0		1 3	5000 (2270)

Legend

1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act
3 "3" indicates that the source is section 112 of the Clean Air Act

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Clean Air Act

Name of substance	CAS No	Type of registration	Basis for listing	Threshold quantity (lbs)
Hydrochloric Acid	7647-01-0	Toxic substance	a	5000
Hydrochloric Acid	7647-01-0	Toxic substance	d	15000

Legend

- a Mandated for listing by Congress.
d Toxicity of hydrogen chloride, potential to release hydrogen chloride, and history of accidents.

Right to Know Hazardous Substance List

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
Phosphoric Acid 31%	7664-38-2		CO
2-butoxyethanol	111-76-2		CA F2
Hydrochloric Acid	7647-01-0		CO R1

Legend

- CA Carcinogenic
CO Corrosive
F2 Flammable - Second Degree
R1 Reactive - First Degree

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	/	none
Health	3	major injury likely unless prompt action is taken and medical treatment is given
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur

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Category	Degree of hazard	Description
Health	3	material that, under emergency conditions, can cause serious or permanent injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

National regulations (Canada)

Domestic Substances List (DSL)

All ingredients are listed.

National inventories

Country	Inventory	Status
CA	DSL	all ingredients are listed
EU	REACH Reg.	all ingredients are listed or exempt from listing
US	TSCA	all ingredients are listed

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.

16 Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1	SECTION 1: Identification	1 Identification	yes
1.3	e-mail (competent person): Service@interflon.com (Service lab)	e-mail (competent person): Service@Interflon.com	yes
1.4		Poison center: change in the listing (table)	yes
2	SECTION 2: Hazard identification	2 Hazard identification	yes
2.2	- Hazardous ingredients for labelling: Phosphoric Acid 31%, Hydrogen chloride, Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., Iso-tridecanol, ethoxylated	- Hazardous ingredients for labelling: Phosphoric Acid 31%, Hydrochloric Acid, Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., Iso-tridecanol, ethoxylated	yes
2.3		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 $\geq 0.1\%$.	yes
3	SECTION 3: Composition/information on ingredients	3 Composition/ Information on ingredients	yes
3.2		Hazardous ingredients: change in the listing (table)	yes
3.2		Regulation 648/2004/EC on detergents	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
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-state-ments: see SECTION 16.	yes
4	SECTION 4: First-aid measures	4 First-aid measures	yes
5	SECTION 5: Fire-fighting measures	5 Fire-fighting measures	yes
5.1	Suitable extinguishing media: Water spray, BC-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
5.3	Advice for firefighters: In case of fire and/or explosion do not breathe fumes. Coordinate 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.	Advice for firefighters: In case of fire and/or explosion do not breathe fumes. Coordinate 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.	yes
6	SECTION 6: Accidental release measures	6 Accidental release measures	yes
7	SECTION 7: Handling and storage	7 Handling and storage	yes
7.1	Advice on general occupational hygiene: Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.	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.	yes
7.2	- 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. Do not expose to temperatures exceeding 50 °C/122 °F.	- 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.	yes
8	SECTION 8: Exposure controls/personal protection	8 Exposure controls/ Personal protection	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): not relevant	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1		Relevant DNELs of components: change in the listing (table)	yes
8.1		Relevant PNECs of components: change in the listing (table)	yes
8.2	General safety precautions: Use only in well-ventilated areas. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Do not eat, drink and smoke in work areas.	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 feeding-stuffs. Do not breathe gas/vapor/spray. Wash hands after use.	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
8.2	Eye/face protection: Use protective eyewear to guard against splash of liquids.	Eye/face protection: Work with safety glasses. Use safety goggle with side protection. eye protection must be worn	yes
8.2	Hand protection: Wear suitable gloves. 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. 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. 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. Wear suitable gloves. NBR: acrylonitrile-butadiene rubber.	yes
8.2	Respiratory protection: Not required.	Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Type : A (against organic gases and vapors with a boiling point of > 65 °C , color code: Brown).	yes
9	SECTION 9: Physical and chemical properties	9 Physical and chemical properties	yes
9.1	Appearance		yes
9.1	Other safety parameters		yes
9.1	Initial boiling point and boiling range	Boiling point or initial boiling point and boiling range	yes
9.1	Flammability (solid, gas): not relevant, (fluid)	Flammability: flammable liquid in accordance with GHS criteria	yes
9.1		Lower and upper explosion limit: not determined	yes
9.1	Evaporation rate: Not determined		yes
9.1		Decomposition temperature: not relevant	yes
9.1		Kinematic viscosity: not determined	yes
9.1	- n-octanol/water (log KOW)	Partition coefficient n-octanol/water (log value)	yes
9.1		Density and/or relative density	yes
9.1	Vapor density: this information is not available		yes
9.1	Viscosity: not determined		yes
9.1	Explosive properties: not explosive (GHS of the United Nations, annex 4)		yes
9.1	Oxidizing properties: none		yes
9.1		Relative vapour density: information on this property is not available	yes
9.1	Particle	Particle characteristics	yes
9.2	Temperature class (USA, acc. to NEC 500): T2D (maximum permissible surface temperature		yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
	on the equipment: 215°C)		
9.2		Information with regard to physical hazard classes: there is no additional information	yes
9.2		Other safety characteristics: there is no additional information	yes
10	SECTION 10: Stability and reactivity	10 Stability and reactivity	yes
11	SECTION 11: Toxicological information	11 Toxicological information	yes
11.1		Acute toxicity estimate (ATE) of components: change in the listing (table)	yes
12	SECTION 12: Ecological information	12 Ecological information	yes
12.5	Results of PBT and vPvB assessment: Data are not available.	Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes
12.6	Endocrine disrupting properties: None of the ingredients are listed.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.	yes
13	SECTION 13: Disposal considerations	13 Disposal considerations	yes
13.1	Sewage disposal-relevant information: Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.	Sewage disposal-relevant information: Do not empty into drains.	yes
13.1	Waste treatment of containers/packages: Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.	Waste treatment of containers/packages: Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. 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.	yes
14	SECTION 14: Transport information	14 Transport information	yes
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code	Transport in bulk according to IMO instruments	yes
15	SECTION 15: Regulatory information	15 Regulatory information	yes
15.1	Toxic Substance Control Act (TSCA): all ingredients are listed	Toxic Substance Control Act (TSCA): all ingredients are listed (ACTIVE) or exempt from listing	yes
15.1		The List of Extremely Hazardous Substances and Their Threshold Planning Quantities: change in the listing (table)	yes
15.1		Toxics Release Inventory: Specific Toxic Chemical Listings: change in the listing (table)	yes
15.1		List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4): change in the listing (table)	yes
15.1		Clean Air Act: change in the listing (table)	yes
15.1		Hazardous Substance List (NJ-RTK): change in the listing (table)	yes
16	SECTION 16: Other information	16 Other information	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
16		Abbreviations and acronyms: change in the listing (table)	yes
16	Key literature references and sources for data: Hazardous Products Regulations (HPR).UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).	Key literature references and sources for data: Hazardous Products Regulations (HPR) SOR/2022-272: Regulations Amending the Hazardous Products Regulations (GHS, Seventh Revised Edition)UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).	yes
16	List of relevant phrases (code and full text as stated in chapter 2 and 3)	List of relevant phrases (code and full text as stated in section 2 and 3)	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
"BC Regulation"	OHS Regulation: Section 5.48 (British Columbia)
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
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
ED	Endocrine disruptor
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
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
Met. Corr.	Substance or mixture corrosive to metals
MoL	Ministry of Labor: Current Occupational Exposure Limits for Ontario Workplaces Required under Regulation 833
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OHS Code	Occupational Health and Safety Code: Occupational exposure limits for chemical substances (Alberta)

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Abbr.	Descriptions of used abbreviations
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Press. Gas	Gas under pressure
Regulation OHS	Regulation respecting occupational health and safety: Permissible exposure values for airborne contaminants (Quebec)
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
TWA	Time-weighted average
UN RTDG	UN Recommendations on the Transport of Dangerous Good
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Hazardous Products Regulations (HPR)
SOR/2022-272: Regulations Amending the Hazardous Products Regulations (GHS, Seventh Revised Edition)
UN Recommendations on the Transport of Dangerous Good. 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.
H280	Contains gas under pressure; may explode if heated.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.

Disclaimer

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