HYDROCHLORIC ACID 30%

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name:	Hydrochloric Acid 30%
CAS Number:	7647-01-0
EC Number:	231-595-7
REACH Registration Number:	01-2119484862-27

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

Use of the Substance / Mixture:	Intermediate, Chemical substance for synthesis, Process chemicals, Special applications in general.
Reference to relevant exposure scenarios:	For an overview of the exact titiles of the relevant exposure scenarios, please refer to section 16 of this MSDS.

1.3 Details of the supplier of the safety data sheet

Company name:	East Harbour Group Ltd 20 Clough Road, Severalls Industrial Park Colchester, Essex, CO4 9QS United Kingdom
Telephone:	+44 (0) 333 242 0100
Email:	info@eastharbourgroup.com

1.4 Emergency telephone number

Emergency telephone:	0800 246 1274

Section 2: Hazardous identification

2.1 Classification of the substance or mixture
Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1	H290	May be corrosive to metals.
Skin corrosion, Sub-category 1A	H314	Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318	Causes serious eye damage.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335	May cause respiratory irritation.

2.2 Label elements
Labelling (REGULATION (EC) No 1272/2008

HYDROCHLORIC ACID 30%

Pictogram



Signal word	Danger

Hazard statements

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.

Precautionary statements
Prevention

P261	Avoid breathing mist or vapours.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response

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.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER / doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER / doctor.

Hazardous components which must be listed on the label
Hydrochloric acid

2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information
The substance / mixture does not contain components considered to have endocrine disrupting properties according to REACH Articles 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information
The substance / mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

HYDROCHLORIC ACID 30%

Section 3: Composition/information on ingredients

3.1 Substances
Not applicable.

3.2 Mixtures
Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
hydrochloric acid	7647-01-0 231-595-7 017-002-00-2 01-2119484862-27	Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)	>= 25 - <= 37
		specific concentration limit Met. Corr. 1; H290 >= 0,1 % Eye Dam. 1; H318 >= 1 % Skin Corr. 1B; H314 >= 10 % STOT RE 3; H335 >= 10 % Skin Corr. 1A; H314 >=25%	

Section 4: First aid measures

4.1 Description of first aid measures
General adviceTake off all contaminated clothing immediately.
Call a doctor immediately if allergic signs, particularly in the respiratory tract, are observed.
When symptoms persist or in all cases of doubt seek medical advice.
If the patient is likely to become unconscious, place and transport in stable sideways position.

If inhaled
If inhaled, remove to fresh air.
In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice.

In case of skin contact
In case of skin contact
Wash off with plenty of water.
Cover wound with sterile dressing. Call a physician immediately.

In case of eye contact
In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Protect unharmed eye.

HYDROCHLORIC ACID 30%

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	Call a physician immediately.
If swallowed	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	Cough Shortness of breath
Risks	First aider needs to protect himself. Causes serious eye damage. May cause respiratory irritation. Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	No data available.

Section 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Water spray jet
Unsuitable extinguishing media	Dry chemical

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting	Heating or fire can release toxic gas.
Hazardous combustion products	Chlorine Hydrogen chloride (HCl)

5.3 Advice for firefighters

Special protective equipment for firefighters	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions

Do not flush into surface water or sanitary sewer system.
Do not allow uncontrolled discharge of product into the environment.
Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

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6.3 Methods and material for containment and cleaning up
Methods for cleaning up
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use chemical neutralising agents.

6.4 Reference to other sections
Information regarding safe handling, see chapter 7. For personal protection see section 8. For disposal considerations see section 13

Section 7: Handling and storage

7.1 Precautions for safe handling
Advice on safe handling
Handle with care. Avoid inhalation, ingestion and contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms.
Avoid formation of aerosol.

Advice on protection against fire and explosion
No specific measures identified.

Hygiene measures
Avoid contact with skin, eyes and clothing. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and at the end of workday. Wash hands before eating, drinking, or smoking.
Use barrier skin cream. Do not inhale aerosol.

7.2 Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers
Keep containers tightly closed in a dry, cool and well- ventilated place. Containers which are opened must be care- fully resealed and kept upright to prevent leakage. Keep in properly labelled containers.

Advice on common storage
Substances to be avoided, pis. See chapter 10.

Packaging material
Unsuitable material: Mild steel, Metal

7.3 Specific end use(s)
Specific use(s)
No data available.

HYDROCHLORIC ACID 30%

Section 8: Exposure controls/personal protection

8.1 Control parameters
Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
hydrogen chloride	7647-01-0	TWA	5 ppm 8 mg/m3	2000/39/EC
Further information: Indicative				
		STEL	10 ppm 15 mg/m3	2000/39/EC
Further information: Indicative				
		L	5 ppm 8 mg/m3	DKOEL

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	Value
hydrogen chloride	Workers	Inhalation	Short-term exposure, Acute effects, Local effects	15 mg/m3
	Workers	Inhalation	Long-term exposure, Chronic effects, Local effects	8 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
hydrogen chloride	Fresh water	0.036 mg/l
	Marine water	0.036 mg/l
	Aqua intermittent	0.045 mg/l
	Sewage treatment plant	0.036 mg/l

8.2 Exposure controls Engineering measures
Engineering measures
Effective exhaust ventilation system
Maintain air concentrations below occupational exposure standards.

Personal protective equipment
Eye protection
Safety glasses with side-shields
Equipment should conform to EN 166
Face shield

Hand protection
Remarks
Protective gloves complying with EN 374.Gloves must be inspected prior to use. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Material
butyl-rubber

HYDROCHLORIC ACID 30%

Break through time
>480 min

Glove thickness
>0.7 mm

Skin and body protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Preventive skin protection
acid-resistant protective clothing

Respiratory protection
Apply technical measures to comply with the occupational exposure limits.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Breathing apparatus needed only when aerosol or mist is formed.

Filter type
E - P2; E - P3

Protective measures
Ensure that eye flushing systems and safety showers are located close to the working place.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless to slightly yellow stinging
Odour	stinging
Odour Threshold	No data available
Melting point range	-70 °C Reference substance: 25% HCl Source: literature reference
Solidification / Setting point	ca. -28 °C Reference substance: 37% HCl Source: supplier
Boiling point boiling range	107 °C Reference substance: 25% HCl Source: literature reference ca. 60 °C Reference substance: 36% HCl Source: supplier
Upper explosion limit/ Upper flammability limit	No data available
Lower explosion limit/ Lower flammability limit	No data available
Flash point	No data available

HYDROCHLORIC ACID 30%

	Not applicable
Auto-ignition temperature	No data available
pH	<1 (20 °C) Reference substance: 25% HCl Source: literature reference
Viscosity	
Viscosity, dynamic	ca. 2 mPa.s (15 °C) Reference substance: 37% HCl Source: supplier
Viscosity, kinematic	No data available
Solubility(ies) Water solubility	completely miscible
Solubility in other solvents	No data available
Partition coefficient: n- octanol/water	No data available
Vapour pressure	12 hPa (20 °C) Reference substance: 25% HCl Source: literature reference ca. 140 - 285 mbar (20 °C) Reference substance: 37% HCl Source: supplier
Relative density	No data available
Density	1,12 g/cm3 (20 °C) Reference substance: 25% HCl Source: literature reference 1,18-1,19 g/cm3 (20 °C) Reference substance: 37% HCl Source: supplier
Relative vapour density	No data available

9.2 Other information

Flammability (liquids)	Will not burn

Section 10: Stability and Reactivity

10.1 Reactivity
No dangerous reaction known under conditions of normal use.

10.2 Chemical stability
No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions
Hazardous reactions
Exothermic reactions are possible in the event of contact with incompatible substances.
Formation of hydrogen gas upon contact with materials to avoid. Explosion hazard.

10.4 Conditions to avoid
Conditions to avoid
None known.

HYDROCHLORIC ACID 30%

10.5 Incompatible materials
Materials to avoid
sodium hypochlorite
Alkalis
Metals

10.6 Hazardous decomposition products
None, when used as directed.

Section 11: Toxicological Information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity
Not classified based on available information.

Skin corrosion/irritation
Causes severe burns.

Components
hydrogen chloride, CAS: 7647-01-0, EINECS: 231-595-7

Species	Rabbit
Method	OECD Test Guideline 404
Result	Corrosive
Test substance	98% HCl
Remarks	Source: ECHA

Serious eye damage/eye irritation
Causes serious eye damage.

Components
hydrogen chloride, CAS: 7647-01-0, EINECS: 231-595-7

Species	Rabbit
Method	OECD Test Guideline 405
Result	Irreversible effects on the eye
Test substance	10% HCl
Remarks	Source: ECHA

Respiratory or skin sensitisation
Skin sensitisation
Not classified based on available information.

Respiratory sensitisation
Not classified based on available information.

Components
hydrogen chloride, GAS: 7647-01-0, EINECS: 231-595-7

Exposure routes	Dermal
Species	Guinea pig
Method	OECD Test Guideline 406
Result	non-sensitizing
Remarks	Source: ECHA

HYDROCHLORIC ACID 30%

Germ cell mutagenicity
Not classified based on available information.

Components
hydrogen chloride, GAS: 7647-01-0, EINECS: 231-595-7
Germ cell mutagenicity Assessment
Based on available data, the classification criteria are not met.
Remarks: Source: ECHA

Carcinogenicity
Not classified based on available information.

Components
hydrogen chloride, GAS: 7647-01-0, EINECS: 231-595-7

Species	Rat
Application Route	Inhalation
Method	OECD Test Guideline 451
Remarks	Based on available data, the classification criteria are not met. Source: ECHA
Carcinogenicity Assessment	Remarks: Source: ECHA

Reproductive toxicity
Not classified based on available information.

STOT - single exposure
May cause respiratory irritation.
STOT - repeated exposure
Not classified based on available information.

Aspiration toxicity
Not classified based on available information.

11.2 Information on other hazards
Endocrine disrupting properties
Product
Assessment
The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 12: Ecological Information

12.1 Toxicity
Components
hydrogen chloride, CAS: 7647-01-0, EINECS: 231-595-7
Toxicity to fish
LC50 (Lepomis macrochirus (Bluegill sunfish)): 3,25 - 3,5 mg/l
Exposure time: 96 h
Test substance: 100% HCl

HYDROCHLORIC ACID 30%

Remarks: Source: ECHA

Toxicity to daphnia and other aquatic invertebrates
EC50 (Daphnia magna (Water flea)): 4,92 mg/l
Exposure time: 48 h
Test substance: 36% HCl
Method: OECD Test Guideline 202
Remarks: Source: ECHA

Toxicity to algae/aquatic plants
EC50 (Chlorella vulgaris (Fresh water algae)): 4,7 mg/l
Exposure time: 72 h
Test substance: 36% HCl
Method: OECD Test Guideline 201
Remarks: Source: ECHA

Toxicity to microorganisms
EC50 (activated sludge): 5 - 5,5 mg/l
Exposure time: 3 h
Test substance: 36% HCl
Method: OECD Test Guideline 209
Remarks: Source: ECHA

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
Product
Assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties
Product
Assessment
The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects
Product
Environmental fate and pathways
Do not allow uncontrolled discharge of product into the environment.

HYDROCHLORIC ACID 30%

Section 13: Disposal considerations

13.1 Waste treatment methods

Waste disposal of substance:
Product
In accordance with local and national regulations.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Avoid discharge to drain or surface water.

Contaminated packaging
Packaging that is not properly emptied must be disposed of as the unused product.
Recommended cleansing agent: water.
Residuals must be removed from packaging and when emp- tied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

Section 14: Transport Information

14.1 UN number or ID number

ADN	UN 1789
ADR	UN 1789
RID	UN 1789
IMDG	UN 1789
IATA	UN 1789

14.2 UN proper shipping name

ADN	HYDROCHLORIC ACID
ADR	HYDROCHLORIC ACID
RID	HYDROCHLORIC ACID
IMDG	HYDROCHLORIC ACID
IATA	HYDROCHLORIC ACID

14.3 Transport hazard class(es)

ADN	8
ADR	8
RID	8
IMDG	8
IATA	8

14.4 Packing group

ADN

Packing group	II
Classification Code	C1
Hazard Identification Number	80
Labels	8

ADR

Packing group	II

HYDROCHLORIC ACID 30%

Classification Code	C1
Hazard Identification Number	80
Labels	8
Tunnel restriction code	(E)

RID

Packing group	II
Classification Code	C1
Hazard Identification Number	80
Labels	8

IMDG

Packing group	II
Labels	8
EmS Code	F-A, S-B

IATA (Cargo)

Packing instruction (cargo aircraft)	855
Packing instruction (LQ)	Y840
Packing group	II
Labels	Corrosives

IATA (Passenger)

Packing instruction (passenger aircraft)	851
Packing instruction (LQ)	Y840
Packing group	II
Labels	Corrosives

14.5 Environmental hazards

ADN

Environmentally hazardous	no

ADR

Environmentally hazardous	no

RID

Environmentally hazardous	no

IMDG

Marine pollutant	no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Ship type	3
Pollution category	Z
Remarks	Product Name: Hydrochloric acid

HYDROCHLORIC ACID 30%

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Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)
Conditions of restriction for the following entries should be considered: Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).
Not listed

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer
Not listed

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)
Not listed

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals
Not applicable

REACH - List of substances subject to authorisation (Annex XIV)
Not listed

Seveso III: Directive 2012/18/EU of the Euro- pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
16 Hydrogen chloride (liquefied gas)

Other regulations
Adhere to the national sanitary and occupational safety regulations when using this product.
Young people under the age of 18 are not allowed to use or be exposed to the product professionally. Young people above the age of 15 are, however, except from this rule if the product is a necessary part of their education.

PR-nr. 954702

The components of this product are reported in the following inventories:

TCSI	On the inventory, or in compliance with the inventory
TSCA	All substances listed as active on the TSCA inventory
AIIC	On the inventory, or in compliance with the inventory
DSL	All components of this product are on the Canadian DSL
ENCS	On the inventory, or in compliance with the inventory
ISHL	On the inventory, or in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
NZIoC	Not in compliance with the inventory
TECI	On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment
A Chemical Safety Assessment has been carried out for this substance.

HYDROCHLORIC ACID 30%

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Section 16: Other Information

Sources of key data used to compile the Safety Data Sheet
Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU
EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU
National Threshold Limit Values of the corresponding countries as amended in each case.
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of H-Statements

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

Full text of other abbreviations

Eye Dam.	Serious eye damage
Met. Corr.	Corrosive to metals
Skin Corr.	Skin corrosion
STOT SE	Specific target organ toxicity - single exposure
2000/39/EC	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
DKOEL	Denmark. Occupational Exposure Limits
2000/39/EC I TWA	Limit Value - eight hours
2000/39/EC I STEL	Short term exposure limit
DK OEL/ L	Ceiling
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road;
AICS	Australian Inventory of Chemical Substances;
ASTM	American Society for the Testing of Materials;
bw	Body weight;
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008;
CMR	Carcinogen, Mutagen or Reproductive Toxicant;
DIN	Standard of the German Institute for Standardisation;
DSL	Domestic Substances List (Canada);
ECHA	European Chemicals Agency;
EC-Number	European Community number;
ECx	Concentration associated with x% response;
ELx	Loading rate associated with x% response;
EmS	Emergency Schedule;
ENCS	Existing and New Chemical Substances (Japan);
ErCx	Concentration associated with x% growth rate response;
GHS	Globally Harmonized System;
GLP	Good Laboratory Practice;

HYDROCHLORIC ACID 30%

IARC	International Agency for Research on Cancer;
IATA	International Air Transport Association;
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;
IC50	Half maximal inhibitory concentration;
ICAO	International Civil Aviation Organization;
IECSC	Inventory of Existing Chemical Substances in China;
IMDG	International Maritime Dangerous Goods;
IMO	International Maritime Organization;
ISHL	Industrial Safety and Health Law (Japan);
ISO	International Organisation for Standardization;
KECI	Korea Existing Chemicals Inventory;
LC50	Lethal Concentration to 50 % of a test population;
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose);
MARPOL	International Convention for the Prevention of Pollution from Ships;
n.o.s.	Not Otherwise Specified;
NO(A)EC	No Observed (Adverse) Effect Concentration;
NO(A)EL	No Observed (Adverse) Effect Level;
NOELR	No Observable Effect Loading Rate;
NZIoC	New Zealand Inventory of Chemicals;
OECD	Organization for Economic Co-operation and Development;
OPPTS	Office of Chemical Safety and Pollution Prevention;
PBT	Persistent, Bioaccumulative and Toxic substance;
PICCS	Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship;
REACH	Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals;
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail;
SADT	Self-Accelerating Decomposition Temperature;
SDS	Safety Data Sheet;
SVHC	Substance of Very High Concern;
TCSI	Taiwan Chemical Substance Inventory;
TRGS	Technical Rule for Hazardous Substances;
TSCA	Toxic Substances Control Act (United States);
UN	United Nations;
vPvB	Very Persistent and Very Bioaccumulative

Further information
Other information
Safety data sheet according to regulation (EC) No. 2020/878

Classification of the mixture		Classification procedure:
Met. Corr. 1	H290	Calculation method
Skin Corr. 1A	H314	Calculation method
Eye Dam. 1	H318	Calculation method
STOT SE 3	H335	Calculation method