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

1.1 Product identifier

- Trade name Interox ST-50 peracid grade

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

Uses of the Substance/Mixture

- Oxidizing agents
- Chemical industry

1.3 Details of the supplier of the safety data sheet

Company

Solvay Interox Pty Ltd
20-22 McPherson St
NSW 2019 Banksmeadow
AUSTRALIA
Phone: +61 02 9316 8000
Fax: +61 02 9316 6445

E-mail address

manager.sds@solvay.com

1.4 Emergency telephone number

+61 2 8014 4558 [CareChem 24]

MULTI LINGUAL EMERGENCY NUMBER (24/7)

Europe/Latin America/Africa:+44 1235 239 670 (UK)

Middle East/Africa speaking Arabic: +44 1235 239 671 (UK)

Asia Pacific : +65 3158 1074 (Singapore)

China : 400 120 6011 (toll-free, access from China only)

North America : +1 800 424 9300

Poisons information

- "For advice, contact a Poison Information Center (e.g. phone Australia 13 1126) or a doctor (at once)"

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Work Health and Safety Regulation 2011

- Oxidizing liquids , Category 2	H272: May intensify fire; oxidizer.
- Acute toxicity , Category 4	H302: Harmful if swallowed.
- Skin corrosion , Sub-category 1B	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	H335: May cause respiratory irritation. (Respiratory system),

SUSMP (AU)

- Schedule 6: Poison

2.2 Label elements

Work Health and Safety Regulation 2011

Hazardous products which must be listed on the label

- CAS-No. 7722-84-1 hydrogen peroxide

Pictogram

Flame over circle

Corrosion

Exclamation mark

Signal word

- Danger

Hazard statements

- H272	May intensify fire; oxidizer.
- H302	Harmful if swallowed.
- H314	Causes severe skin burns and eye damage.
- H335	May cause respiratory irritation.

Precautionary statements

Prevention

- P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P220	Keep away from clothing and other combustible materials.
- P261	Avoid breathing mist or vapours.
- P264	Wash skin thoroughly after handling.
- P270	Do not eat, drink or smoke when using this product.
- P271	Use only outdoors or in a well-ventilated area.
- P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response

- P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
- 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.
- P363	Wash contaminated clothing before reuse.
- P370 + P378	In case of fire: Use water spray to extinguish.

Storage

- P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
- P405	Store locked up.

Disposal

- P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards which do not result in classification

- Short-term (acute) aquatic hazard, Category 2	H401: Toxic to aquatic life.

SECTION 3: Composition/information on ingredients

3.1 Substance

- Not applicable, this product is a mixture.

3.2 Mixture

Information on Components and Impurities

Chemical name	CAS-No.	GHS Classification	Concentration [%]
Hydrogen peroxide	7722-84-1	Oxidizing liquids, Category 1 ; H271 Acute toxicity, Category 4 ; H302 Skin corrosion, Sub-category 1A ; H314 Serious eye damage, Category 1 ; H318 Specific target organ toxicity - single exposure, Category 3 ; H335 (Respiratory system) **Specific concentration limits:** C: >= 70 %, Oxidizing liquids, Category 1; H271 C: 50 - < 70 %, Oxidizing liquids, Category 2; H272 C: >= 70 %, Skin corrosion, Category 1A; H314 C: 50 - < 70 %, Skin corrosion, Category 1B; H314 C: 35 - < 50 %, Skin irritation, Category 2; H315 C: 8 - < 50 %, Serious eye damage, Category 1; H318 C: 5 - < 8 %, Eye irritation, Category 2; H319 C: >= 35 %, Specific target organ toxicity - single exposure, Category 3; H335	50.5
Non-hazardous ingredients *			Balance

* (Ingredients present at non-hazardous concentrations, according to criteria of SWAC (Australia) based on available information).

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

- Show this safety data sheet to the doctor in attendance.

In case of inhalation

- Move to fresh air.
- Oxygen or artificial respiration if needed.
- Victim to lie down in the recovery position, cover and keep him warm.
- Call a physician immediately.

In case of skin contact

- Take off contaminated clothing and shoes immediately.
- Wash off immediately with plenty of water.
- Keep warm and in a quiet place.
- Call a physician or poison control centre immediately.
- Wash contaminated clothing before re-use.

In case of eye contact

- Call a physician or poison control centre immediately.
- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- In the case of difficulty of opening the lids, administer an analgesic eye wash (oxybuprocaine).

- Take victim immediately to hospital.

In case of ingestion

- Call a physician or poison control centre immediately.
- Take victim immediately to hospital.
- If swallowed, rinse mouth with water (only if the person is conscious).
- Do NOT induce vomiting.
- Artificial respiration and/or oxygen may be necessary.

- If victim is conscious:
- If swallowed, rinse mouth with water (only if the person is conscious).
- Do NOT induce vomiting.

- If victim is unconscious:
- Artificial respiration and/or oxygen may be necessary.

4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation

Symptoms
- Breathing difficulties
- Cough
- pulmonary oedema
- Nausea
- Vomiting

Effects
- Corrosive to respiratory system.

Repeated or prolonged exposure

- Nose bleeding
- Risk of chronic bronchitis

In case of skin contact

Symptoms
- Redness
- Swelling of tissue

Effects
- Corrosive
- Causes severe burns.

In case of eye contact

Symptoms
- Redness
- Lachrymation
- Swelling of tissue

Effects
- Corrosive
- Causes severe burns.
- Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

In case of ingestion

Symptoms
- Nausea
- Abdominal pain
- Bloody vomiting
- Diarrhoea
- Suffocation
- Cough
- Severe shortness of breath

Effects

- If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.
- Risk of respiratory disorder

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

- Take victim immediately to hospital.
- Immediate medical attention is required.
- Consult with an ophthalmologist immediately in all cases.
- Burns must be treated by a physician.
- If swallowed
- Avoid gastric lavage (risk of perforation).
- Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

- Water
- Water spray

Unsuitable extinguishing media

- None

5.2 Special hazards arising from the substance or mixture

- Oxidizing
- If subject to contamination or heating it will release oxygen which may intensify an existing fire.
- If heated under confinement there is a risk of pressure burst.
- Contact with flammable or combustible liquids could initiate a fire.
- Mixing with flammable or combustible liquids can create potentially explosive mixtures.

5.3 Advice for firefighters

Special protective equipment for firefighters

- In the event of fire, wear self-contained breathing apparatus.
- Use personal protective equipment.
- Wear chemical resistant oversuit
- Hazchem Code 2P

Further information

- Keep product and empty container away from heat and sources of ignition.
- Keep containers and surroundings cool with water spray.
- Approach from upwind.
- Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel

- Evacuate personnel to safe areas.
- Keep people away from and upwind of spill/leak.

Advice for emergency responders

- Use personal protective equipment.
- Drying of this product on clothing or combustible materials may cause fire.
- Keep wetted with water.
- Prevent further leakage or spillage.
- Keep away from incompatible products

6.2 Environmental precautions

- Should not be released into the environment.
- If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

- Dilute with plenty of water.
- Dam up.
- Do not mix waste streams during collection.
- Soak up with inert absorbent material.
- Keep in properly labelled containers.
- Keep in suitable, closed containers for disposal.
- Treat recovered material as described in the section "Disposal considerations".

6.4 Reference to other sections

- Refer to protective measures listed in sections 7 and 8.

Dangerous Goods - Emergency Response Guidebook (ERG) (AU ERG2018)

Guide : 140

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Use only in well-ventilated areas.
- Before all operations, passivate the piping circuits and vessels according to the procedure recommended by the producer.
- Use only clean and dry utensils.
- Never return unused material to storage receptacle.
- Keep away from heat.
- Avoid inhalation, ingestion and contact with skin and eyes.
- Keep away from incompatible products

Hygiene measures

- Ensure that eyewash stations and safety showers are close to the workstation location.
- Take off contaminated clothing and shoes immediately.
- Wash contaminated clothing before re-use.
- When using do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

- Keep only in the original container.
- Store in a well-ventilated place. Keep cool.
- Store in a receptacle equipped with a vent.
- Keep in properly labelled containers.
- Keep container closed.
- Keep in a bunded area.
- Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
- Regularly check the condition and temperature of the containers.

- Keep away from:
- Incompatible products

Packaging material

Suitable material
- aluminium 99,5 %
- stainless steel 304L / 316L
- Approved grades of HDPE.

7.3 Specific end use(s)

- Contact your supplier for additional information

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with national occupational exposure limits

Components	Value type	Value	Basis
Hydrogen peroxide	TWA	1 ppm 1.4 mg/m3	Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment

Components with other occupational exposure limits

Components	Value type	Value	Basis
Hydrogen peroxide	TWA	1 ppm	USA. ACGIH Threshold Limit Values (TLV)

8.2 Exposure controls

Control measures

Engineering measures
- Provide adequate ventilation.
- Apply technical measures to comply with the occupational exposure limits.

Individual protection measures

Respiratory protection
- Use respirator when performing operations involving potential exposure to vapour of the product.
- When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Respirator with a vapour filter (EN 141)
- Recommended Filter type: ABEK-P2
- Self-contained breathing apparatus in case of: 1) large uncontrolled emissions, 2) insufficient oxygen, 3) the mask and cartridge do not give adequate protection.

Hand protection
- Impervious gloves

- Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Suitable material
- Nitrile rubber
- Break through time: > 480 min
- Glove thickness: 1.3 mm

- Nitrile/Neopren gloves
- Break through time: 190 min
- Glove thickness: 0.2 mm

Eye protection
- Chemical resistant goggles must be worn.
- If splashes are likely to occur, wear:
- Tightly fitting safety goggles
- Face-shield

Skin and body protection
- Impervious clothing
- If splashes are likely to occur, wear:
- Chemical resistant apron
- Boots

- Suitable material
- PVC
- Natural Rubber

Hygiene measures
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Take off contaminated clothing and shoes immediately.
- Wash contaminated clothing before re-use.
- When using do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

- Dispose of rinse water in accordance with local and national regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	liquid
Colour	colourless
Odour	odourless
Odour Threshold	No data available
Melting point/freezing point	Freezing point: -40.3 °C H2O2 70 %
Initial boiling point and boiling range	Boiling point/boiling range: 125 °C H2O2 70 %
Flammability (solid, gas)	Not applicable

Flammability (liquids)	The product is not flammable.
Flammability/Explosive limit	No data available
Flash point	Not applicable
Auto-ignition temperature	No data available
Decomposition temperature	>= 60 °C Self-Accelerating decomposition temperature (SADT) < 60 °C Slow decomposition
pH	2.0 (21 °C) H2O2 50 % pKa: 11.6 (25 °C)
Viscosity	Viscosity, dynamic : 1.26 mPa.s (20 °C) H2O2 70 % 1.249 mPa.s (20 °C) Pure substance
Solubility	Water solubility: soluble Solubility in other solvents: organic polar solvents: soluble
Partition coefficient: n-octanol/water	log Pow: -1.57 Method: Calculation method
Vapour pressure	2 hPa (30 °C) H2O2 70 %
Density	Bulk density: Not applicable
Relative density	1.29 H2O2 70 % 1.44 (25 °C) Pure substance
Relative vapor density	1.02
Particle characteristics	No data available
Evaporation rate (Butylacetate = 1)	No data available

9.2 Other information

Explosiveness	Not explosive
Explosiveness	With certain materials (see section 10).
Oxidizing properties	The substance or mixture is classified as oxidizing with the category 2.
Self-ignition	The product is not flammable.
Corrosion of Metals	Not corrosive to metals
Surface tension	77.2 mN/m (20 °C)

	H2O2 70 %
	80.4 mN/m (20 °C) Pure substance
Molecular weight	34 g/mol
Henry's Constant	0.00075 Pa.m3/mol (20 °C) not significant, Air, Volatility

SECTION 10: Stability and reactivity

10.1 Reactivity

- Strong oxidizer. Contact with other material may cause fire.
- Decomposes on heating with potential large quantities of gas release (oxygen).
- Potential for exothermic hazard

10.2 Chemical stability

- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

- Contact with combustible material may cause fire.
- Contact with flammables may cause fire or explosions.
- Contact with incompatible material may cause exothermic decomposition with gas release.
- Risk of explosion if heated under confinement.
- Fire or intense heat may cause violent rupture of packages.

10.4 Conditions to avoid

- Contamination
- To avoid thermal decomposition, do not overheat.

10.5 Incompatible materials

- Acids
- Bases
- Metals
- Heavy metal salts
- Powdered metal salts
- Reducing agents
- Organic materials
- Flammable materials

10.6 Hazardous decomposition products

- Oxygen

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

hydrogen peroxide	Acute toxicity estimate : 431 mg/kg - Rat , male and female Method: OECD Test Guideline 401 This product is classified as acute toxicity, category 4 Unpublished reports

Acute inhalation toxicity

hydrogen peroxide	LC50 - 4 h (vapour) : > 0.17 mg/l - Rat Method: OECD Test Guideline 403 Not classified as hazardous for acute inhalation toxicity according to GHS. Unpublished reports

Acute dermal toxicity

hydrogen peroxide	Acute toxicity estimate : 6,440 mg/kg - Rabbit Method: OECD Test Guideline 402 Not classified as hazardous for acute dermal toxicity according to GHS. Unpublished reports

Acute toxicity (other routes of administration)	No data available
Skin corrosion/irritation	Causes burns.
Serious eye damage/eye irritation	Causes serious eye damage.

Respiratory or skin sensitisation

hydrogen peroxide	Does not cause skin sensitisation.

Mutagenicity

Genotoxicity in vitro

hydrogen peroxide	Ames test with and without metabolic activation positive Published data Chromosome aberration test in vitro with and without metabolic activation positive Unpublished reports

Genotoxicity in vivo

hydrogen peroxide	In vivo micronucleus test - Mouse Oral Method: OECD Test Guideline 474 negative Unpublished reports

Carcinogenicity

hydrogen peroxide	No data available

Toxicity for reproduction and development

Toxicity to reproduction/Fertility

hydrogen peroxide	No toxicity to reproduction

Developmental Toxicity/Teratogenicity

hydrogen peroxide	No toxicity to reproduction

STOT

STOT - single exposure

hydrogen peroxide	Exposure routes: Inhalation Target Organs: Respiratory Tract May cause respiratory irritation.

STOT - repeated exposure

hydrogen peroxide	The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria.
hydrogen peroxide	Inhalation (vapour) 90-day - Rat NOAEC: 7 ppm Target Organs: Respiratory Tract Method: OECD Test Guideline 413 Unpublished reports 90-day - Rat NOAEL: 100 ppm Target Organs: Gastrointestinal tract Method: OECD Test Guideline 408 drinking water Unpublished reports
Experience with human exposure	No data available
Aspiration toxicity	No data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic Compartment

Acute toxicity to fish

hydrogen peroxide	LC50 - 96 h : 16.4 mg/l - Pimephales promelas (fathead minnow) semi-static test Analytical monitoring: yes Method: according to a standardised method Harmful to fish. Unpublished internal reports

Acute toxicity to daphnia and other aquatic invertebrates

hydrogen peroxide	EC50 - 48 h : 2.4 mg/l - Daphnia pulex (Water flea) semi-static test Analytical monitoring: yes Method: according to a standardised method Toxic to aquatic invertebrates. Unpublished internal reports

Toxicity to aquatic plants

hydrogen peroxide	ErC50 - 72 h : 2.62 mg/l - Skeletonema costatum (marine diatom) static test Analytical monitoring: yes Method: according to a standardised method Toxic to algae. Unpublished internal reports

Toxicity to microorganisms

hydrogen peroxide	EC50 - 0.5 h : 466 mg/l - activated sludge static test Analytical monitoring: yes Method: OECD Test Guideline 209 Unpublished internal reports
Chronic toxicity to fish	No data available

Chronic toxicity to daphnia and other aquatic invertebrates

hydrogen peroxide	NOEC: 0.63 mg/l - 21 Days - Daphnia magna (Water flea) flow-through test Analytical monitoring: yes Method: according to a standardised method Harmful to aquatic invertebrates with long lasting effects. Published data

12.2 Persistence and degradability

Abiotic degradation	No data available
Physical- and photo-chemical elimination	No data available

Biodegradation

Biodegradability

hydrogen peroxide	Ready biodegradability study: Method: Degradation in sewage treatment plants The substance fulfills the criteria for ultimate aerobic biodegradability and ready biodegradability Inoculum: activated sludge Unpublished internal reports

Degradability assessment

hydrogen peroxide	The product is considered to be rapidly degradable in the environment

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water

hydrogen peroxide	Not potentially bioaccumulable

Bioconcentration factor (BCF)

hydrogen peroxide	Not potentially bioaccumulable

12.4 Mobility in soil

Adsorption potential (Koc)

hydrogen peroxide	Adsorption/Soil Koc: 1.58 Log Koc: 0.2 Method: Structure-activity relationship (SAR) Unpublished reports

Known distribution to environmental compartments

hydrogen peroxide	Ultimate destination of the product : Water

12.5 Results of PBT and vPvB assessment

hydrogen peroxide	This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

Ecotoxicity assessment

Short-term (acute) aquatic hazard	Toxic to aquatic life.
Long-term (chronic) aquatic hazard	Not classified due to data which are conclusive although insufficient for classification.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Disposal

- Contact manufacturer.
- Contact waste disposal services.
- In accordance with local and national regulations.

- Contact manufacturer.
- Contact waste disposal services.
- In accordance with local and national regulations.

Advice on cleaning and disposal of packaging

- Empty containers.
- Clean container with water.
- Dispose of rinse water in accordance with local and national regulations.
- Where possible recycling is preferred to disposal or incineration.
- In accordance with local and national regulations.

- Empty containers.
- Clean container with water.
- Dispose of rinse water in accordance with local and national regulations.
- Where possible recycling is preferred to disposal or incineration.
- In accordance with local and national regulations.

SECTION 14: Transport information

Road and Rail transport – ADG (Australia)

14.1 UN number	UN 2014
14.2 Proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
14.3 Transport hazard class	5.1
Subsidiary hazard class	8
Label(s)	5.1 (8)
14.4 Packing group	
Packing group	II
Hazchem Code	2P
14.5 Environmental hazards	NO
Marine pollutant	

14.6 Special precautions for user

For personal protection see section 8.

IMDG

14.1 UN number	UN 2014
14.2 Proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
IMDG Code segregation group	Peroxides (SGG16)
14.3 Transport hazard class	5.1
Subsidiary hazard class	8
Label(s)	5.1 (8)
14.4 Packing group	
Packing group	II
14.5 Environmental hazards	NO
Marine pollutant	
14.6 Special precautions for user	
EmS	F-H , S-Q

For personal protection see section 8.

14.7 Transport in bulk vessels according to IMO instruments
No data available

IATA

14.1 UN number	UN 2014
14.2 Proper shipping name	Not permitted for transport
14.3 Transport hazard class	Not permitted for transport
14.4 Packing group	
14.5 Environmental hazards	NO
Marine pollutant	
14.6 Special precautions for user	
Packing instruction (cargo aircraft)	Not permitted for transport
Packing instruction (passenger aircraft)	Not permitted for transport

For personal protection see section 8.

Other information : IATA: permitted under 40%

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison Schedule (SUSMP Australia)

- Schedule 6: Poison

Notification status

Inventory Information	Status
United States TSCA Inventory	- All substances listed as active on the TSCA inventory
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australian Inventory of Industrial Chemicals (AIIC)	- Listed on Inventory; we have not determined if this product contains substances with regulatory obligations and/or restrictions.
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Listed on Inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed on Inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- One or more components not listed on inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- One or more components not listed on inventory
Taiwan Chemical Substance Inventory (TCSI)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	- One or more components is not listed on the NZIoC inventory. Additional HSNO obligations may apply. Please refer to Section 15 of SDS for New Zealand.

SECTION 16: Other information

Full text of H-Statements

- H271: May cause fire or explosion; strong oxidiser.
- H272: May intensify fire; oxidizer.
- H302: Harmful if swallowed.
- H314: Causes severe skin burns and eye damage.
- H318: Causes serious eye damage.
- H335: May cause respiratory irritation.
- H401: Toxic to aquatic life.

Key or legend to abbreviations and acronyms used in the safety data sheet

- TWA: Exposure standard - time weighted average
- ca.: approximately
- ADR: European Agreement on International Carriage of Dangerous Goods by Road.
- ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
- RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- IATA: International Air Transport Association.
- ICAO-TI: Technical Instructions for Safe Transport of Dangerous Goods by Air.
- IMDG: International Maritime Dangerous Goods.
- TWA: Time weighted average
- ATE: Estimated value of acute toxicity
- EC: European Community number
- CAS: Chemical Abstracts Service.
- LD50: Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).
- LC50: Substance concentration causing 50% (half) death in the test animals group.
- EC50: Effective Concentration of the substance causing the maximum of 50%.
- PBT: Persistent, Bioaccumulative and Toxic substance.
- vPvB: Very Persistent and Very Bioaccumulative.

- GHS/CLP/SEA: Classification, labeling, packaging regulation
- DNEL: Derived No Effect Level
- PNEC: Predicted No Effect Concentration
- STOT: Specific Target Organ Toxicity

Not all acronyms listed above are referenced in this SDS.

Further information

- Distribute new edition to clients

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.