

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

### 1.1 Product identifier

- Trade name INTEROX® 60-20

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

#### Uses of the Substance/Mixture

- Bleaching agents
- Chemical industry
- Electronic industry
- Metal treatment
- Odour agents
- Oxidizing agents
- Textile industry
- Manufacture of pulp, paper and paper products

### 1.3 Details of the supplier of the safety data sheet

#### Company

SOLVAY CHEMICALS INTERNATIONAL SA  
RUE DE RANSBEEK, 310  
1120, BRUXELLES  
BELGIUM  
Tel: +32-2-2642111  
Fax: +32-2-2641802

PEROXIDOS DO BRASIL Ltda  
RUA JOAO LUNARDELLI, 1301 - CIC  
81460-100, CURITIBA  
BRAZIL  
Tel: +55-41-33165200  
Fax: +55-41-33165201

#### E-mail address

manager.sds@solvay.com

### 1.4 Emergency telephone number

+44(0)1235 239 671 [CareChem 24]

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### GHS Classification (UN)

Oxidizing liquids, Category 2	H272: May intensify fire; oxidizer.
Acute toxicity, Category 4	H302: Harmful if swallowed.
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	H335: May cause respiratory irritation. (Respiratory system)
Acute aquatic toxicity, Category 2	H401: Toxic to aquatic life.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

## 2.2 Label elements

**GHS label elements (UN)****Hazardous products which must be listed on the label**

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

**Pictogram****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.
- H401 Toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**General

- None

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 dust/ fume/ gas/ mist/ vapours/ spray.
- 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.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face 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**

None known.

**SECTION 3: Composition/information on ingredients****3.1 Substance**

- Not applicable, this product is a mixture.

**3.2 Mixture**

- Formula  $H_2O_2$

## Information on Components and Impurities

Chemical name	CAS-No.	GHS Classification	Concentration [%]
hydrogen peroxide	CAS-No. : 7722-84-1	Oxidizing liquids, Category 1 ; H271 Acute toxicity, Category 4 ; H302 Skin corrosion, Category 1A ; H314 Serious eye damage, Category 1 ; H318 Specific target organ toxicity - single exposure, Category 3 ; H335 Acute aquatic toxicity, Category 2 ; H401 Chronic aquatic toxicity, Category 3 ; H412  <b>Specific concentration limit:</b>  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 C: >= 63 %, Chronic aquatic toxicity, Category 3; H412 C: >= 63 %, Chronic aquatic toxicity, Category 4; Not classified	60

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 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**

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- 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
- Decomposition will cause oxygen release which may intensify fire
- Oxygen
- Sustains combustion
- Contact with combustible material may cause fire.
- Contact with flammables may cause fire or explosions.
- Risk of explosion if heated under confinement.

**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

**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**

- Prevent further leakage or spillage if safe to do so.
- Keep away from incompatible products

**Advice for emergency responders**

- Evacuate personnel to safe areas.
- Keep people away from and upwind of spill/leak.
- Use personal protective equipment.
- Drying of this product on clothing or combustible materials may cause fire.
- Keep wetted with water.

**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.

**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 banded 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 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)
- Self-contained breathing apparatus in case of: 1) large uncontrolled emissions, 2) insufficient oxygen, 3) the mask and cartridge do not give adequate protection.
- Recommended Filter type: ABEK-P2

**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**

- PVC
- Natural Rubber
- butyl-rubber
- Nitrile rubber

**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**

<b>Appearance</b>	<b>Physical state:</b> liquid <b>Colour:</b> colourless
<b>Odour</b>	odourless
<b>Odour Threshold</b>	No data available
<b>Molecular weight</b>	34 g/mol
<b>pH</b>	2.0 ( 21 °C) H <sub>2</sub> O <sub>2</sub> 50 %  pKa: 11.6 ( 25 °C)
<b>Melting point/freezing point</b>	<b>Freezing point:</b> -0.43 °C Pure substance  : -40.3 °C H <sub>2</sub> O <sub>2</sub> 70 %

<b><u>Initial boiling point and boiling range</u></b>	Boiling point/boiling range: 150.2 °C Pure substance  125 °C H2O2 70 %
<b><u>Flash point</u></b>	Not applicable
<b><u>Evaporation rate (Butylacetate = 1)</u></b>	No data available
<b><u>Flammability (solid, gas)</u></b>	Not applicable
<b><u>Flammability (liquids)</u></b>	The product is not flammable.
<b><u>Flammability/Explosive limit</u></b>	<u>Explosiveness:</u> Not explosive  With certain materials (see section 10).
<b><u>Auto-ignition temperature</u></b>	The product is not flammable.
<b><u>Vapour pressure</u></b>	2 hPa ( 30 °C) H2O2 70 %  2.14 hPa ( 20 °C) Pure substance
<b><u>Vapour density</u></b>	1.02
<b><u>Density</u></b>	<u>Bulk density:</u> Not applicable
<b><u>Relative density</u></b>	1.29 H2O2 70 %
<b><u>Relative density</u></b>	1.44 ( 25 °C) Pure substance
<b><u>Solubility</u></b>	<u>Water solubility:</u> soluble
<b><u>Partition coefficient: n-octanol/water</u></b>	log Pow: -1.57 Method: Calculation method
<b><u>Decomposition temperature</u></b>	>= 60 °C Self-Accelerating decomposition temperature (SADT)
<b><u>Decomposition temperature</u></b>	< 60 °C Slow decomposition
<b><u>Viscosity</u></b>	<u>Viscosity, dynamic :</u> 1.26 mPa.s ( 20 °C) H2O2 70 %  1.249 mPa.s ( 20 °C) Pure substance
<b><u>Explosive properties</u></b>	No data available
<b><u>Oxidizing properties</u></b>	No data available

**9.2 Other information**

<b>Henry's Constant</b>	0.00075 Pa.m <sup>3</sup> /mol (20 °C) not significant, Air, Volatility
<b>Surface tension</b>	77.2 mN/m (20 °C) H <sub>2</sub> O <sub>2</sub> 70 %  80.4 mN/m (20 °C) Pure substance

**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**

- no data available

**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**

Acute toxicity estimate : 431 mg/kg - Rat , male and female  
Test substance: Hydrogen peroxide  
Unpublished reports

**Acute inhalation toxicity**

LC<sub>50</sub> - 4 h ( vapour ) > 0.17 mg/l - Rat  
Test substance: Hydrogen peroxide  
No mortality observed at this concentration.  
Unpublished reports

**Acute dermal toxicity**

Acute toxicity estimate 6,440 mg/kg - Rabbit  
Test substance: Hydrogen peroxide

	Unpublished reports
<b>Acute toxicity (other routes of administration)</b>	No data available
<b><u>Skin corrosion/irritation</u></b>	Causes severe burns.
<b><u>Serious eye damage/eye irritation</u></b>	Causes serious eye damage.
<b><u>Respiratory or skin sensitisation</u></b>	
hydrogen peroxide	Does not cause skin sensitisation. not sensitising
<b><u>Mutagenicity</u></b>	
<b>Genotoxicity in vitro</b>	
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
<b>Genotoxicity in vivo</b>	
hydrogen peroxide	In vivo micronucleus test - Mouse Oral Method: OECD Test Guideline 474  negative Unpublished reports
<b><u>Carcinogenicity</u></b>	
hydrogen peroxide	No data available
<b><u>Toxicity for reproduction and development</u></b>	
<b>Toxicity to reproduction/Fertility</b>	
hydrogen peroxide	No toxicity to reproduction
<b>Developmental Toxicity/Teratogenicity</b>	
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

Unpublished internal reports  
 Harmful to fish.

**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  
 Unpublished internal reports  
 Toxic to aquatic invertebrates.

**Toxicity to aquatic plants**

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

**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  
 Published data  
 Harmful to aquatic invertebrates with long lasting effects.

**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**



**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.

**SECTION 14: Transport information****ADR**

<b>14.1 UN number</b>	UN 2014
<b>14.2 Proper shipping name</b>	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
<b>14.3 Transport hazard class</b>	5.1
Subsidiary hazard class:	8
Label(s):	5.1 (8)
<b>14.4 Packing group</b>	
Packing group	II
Classification Code	OC1
<b>14.5 Environmental hazards</b>	NO
<b>14.6 Special precautions for user</b>	
Tunnel restriction code	(E)
Hazard Identification Number:	58

For personal protection see section 8.

**RID**

<b>14.1 UN number</b>	UN 2014
<b>14.2 Proper shipping name</b>	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
<b>14.3 Transport hazard class</b>	5.1
Subsidiary hazard class:	8
Label(s):	5.1 (8)
<b>14.4 Packing group</b>	
Packing group	II
Classification Code	OC1
<b>14.5 Environmental hazards</b>	NO
<b>14.6 Special precautions for user</b>	

For personal protection see section 8.



**IMDG**

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

For personal protection see section 8.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No data available

**IATA**

<b>14.1 UN number</b>	UN 2014
<b>14.2 Proper shipping name</b>	Not permitted for transport
<b>14.3 Transport hazard class</b>	Not permitted for transport
<b>14.4 Packing group</b>	
<b>14.5 Environmental hazards</b>	NO
<b>14.6 Special precautions for user</b>	
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****Local regulations**

No data available

**Notification status**

<b>Inventory Information</b>	<b>Status</b>
United States TSCA Inventory	- Listed on Inventory
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australia Inventory of Chemical Substances (AICS)	- Listed on Inventory
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)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory
Mexico INSQ (INSQ)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	- Listed on Inventory
EU. European Registration, Evaluation, Authorisation and Restriction of Chemical (REACH)	- When purchased from a European Solvay legal entity, this product is compliant with the registration provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, pre-registered and/or registered. When purchased from a legal entity outside of Europe, please contact your local representative for additional information.

**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.
- H412 Harmful to aquatic life with long lasting effects.

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

- TWA 8-hour, time-weighted average

**Further information**

- This sheet was updated (refer to the date at the top of this page). Subheadings and text which have been modified since the previous version are indicated with two vertical bars.
- 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.