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

1.1 Product identifier
- Trade name
HYDROGEN PEROXIDE AQUEOUS SOLUTION, with concentration between 50% and 60%

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
- Water treatment
- Manufacture of pulp, paper and paper products

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number
+55 11 3197 5891 [CareChem 24]
0800 41 8182

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to NBR 14725-2
- Oxidizing liquids, Category 2
  - H272: May intensify fire; oxidizer.
- Skin corrosion, Category 1B
  - H314: Causes severe skin burns and eye damage.
- Specific target organ toxicity - single exposure
  - H335: May cause respiratory irritation. (Respiratory system), Inhalation
- Category 3
- Acute aquatic toxicity, Category 2
  - H401: Toxic to aquatic life.
- Acute toxicity, Category 4
  - H302: Harmful if swallowed.
- Acute toxicity, Category 4
  - H332: Harmful if inhaled.

2.2 Label elements

Labelling according to NBR 14725-3

Pictogram

Signal word
- Danger

Hazard statements
- H272: May intensify fire; oxidizer.
- H314: Causes severe skin burns and eye damage.
- H302: Harmful if swallowed.
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- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H401 Toxic to aquatic life.

Precautionary statements

Prevention
- P220 Keep/Store away from clothing/ combustible materials.
- P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response
- P310 Immediately call a POISON CENTER/doctor.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P370 + P378 In case of fire: Use water spray for extinction.

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 H2O2
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Information on Components and Impurities

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Classification according to NBR 14725-2</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydrogen peroxide</td>
<td>CAS-No.: 7722-84-1</td>
<td>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 (Respiratory system) Acute aquatic toxicity, Category 2; H401 Chronic aquatic toxicity, Category 3; H412</td>
<td>60</td>
</tr>
</tbody>
</table>

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
- Redness
- Lachrymation
- Swelling of tissue
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---

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

**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
- 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.

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 workplace occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Value type</th>
<th>Value</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydrogen peroxide</td>
<td>TWA</td>
<td>1 ppm</td>
<td>USA. ACGIH Threshold Limit Values (TLV)</td>
</tr>
</tbody>
</table>

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

Eye protection
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- 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Form: liquid</td>
</tr>
<tr>
<td></td>
<td>Physical state: liquid</td>
</tr>
<tr>
<td></td>
<td>Colour: colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>34 g/mol</td>
</tr>
<tr>
<td>pH</td>
<td>2,0 (21 °C)</td>
</tr>
<tr>
<td></td>
<td>H2O2 50 %</td>
</tr>
<tr>
<td>pKa</td>
<td>11,6 (25 °C)</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Freezing point: -0,43 °C</td>
</tr>
<tr>
<td></td>
<td>Pure substance</td>
</tr>
<tr>
<td></td>
<td>: -40,3 °C</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Boiling point/boiling range: 150,2 °C</td>
</tr>
<tr>
<td></td>
<td>Pure substance</td>
</tr>
<tr>
<td></td>
<td>125 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>H2O2 70 %</td>
</tr>
</tbody>
</table>
Evaporation rate (Butylacetate = 1)  
no data available

Flammability (solid, gas)  
Not applicable

Flammability/Explosive limit  
Lower flammability/explosion limit:  
The product is not flammable.

Upper flammability/explosion limit:  
The product is not flammable.

Auto-ignition temperature  
Not applicable

Vapour pressure  
200 hPa (30 °C)  
H2O2 70 %

214 hPa (20 °C)  
Pure substance

Vapour density  
1.02

Density  
no data available

Bulk density:  
Not applicable

Relative density  
1.29  
H2O2 70 %

1.44 (25 °C)  
Pure substance

Solubility  
Solubility in other solvents:  
no data available

Partition coefficient: n-octanol/water  
log Pow: -1.57  
Method: Calculation method

Decomposition temperature  
no data available

Viscosity  
Viscosity, dynamic:  
1.26 mPa.s (20 °C)  
H2O2 70 %

1.249 mPa.s (20 °C)  
Pure substance

Explosive properties  
Not explosive

Oxidizing properties  
Oxidizer

9.2 Other information

Surface tension  
77.2 mN/m (20 °C)  
H2O2 70 %

80.4 mN/m (20 °C)  
Pure substance

SECTION 10: Stability and reactivity

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

Acute inhalation toxicity
LC50 - 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

Acute toxicity (other routes of administration)
no data available

Skin corrosion/irritation
Causes severe burns.
<table>
<thead>
<tr>
<th><strong>Serious eye damage/eye irritation</strong></th>
<th>Causes serious eye damage.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Respiratory or skin sensitisation</strong></td>
<td>hydrogen peroxide: Does not cause skin sensitisation. not sensitising</td>
</tr>
<tr>
<td><strong>Mutagenicity</strong></td>
<td>hydrogen peroxide:</td>
</tr>
<tr>
<td><strong>Genotoxicity in vitro</strong></td>
<td>Ames test with and without metabolic activation positive Published data</td>
</tr>
<tr>
<td></td>
<td>Chromosome aberration test in vitro with and without metabolic activation positive Unpublished reports</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>hydrogen peroxide: no data available</td>
</tr>
<tr>
<td><strong>Toxicity for reproduction and development</strong></td>
<td>hydrogen peroxide:</td>
</tr>
<tr>
<td><strong>Toxicity to reproduction/Fertility</strong></td>
<td>No toxicity to reproduction</td>
</tr>
<tr>
<td><strong>Developmental Toxicity/Teratogenicity</strong></td>
<td>No toxicity to reproduction</td>
</tr>
<tr>
<td><strong>STOT</strong></td>
<td>hydrogen peroxide: Exposure routes: Inhalation Target Organs: Respiratory Tract May cause respiratory irritation.</td>
</tr>
<tr>
<td><strong>STOT - single exposure</strong></td>
<td>hydrogen peroxide:</td>
</tr>
<tr>
<td></td>
<td>The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria.</td>
</tr>
<tr>
<td></td>
<td>Inhalation (vapour) 90-day - Rat NOAEC: 7 ppm Target Organs: Respiratory Tract Method: OECD Test Guideline 413 Unpublished reports</td>
</tr>
</tbody>
</table>
90-day - Rat
NOAEL: 100 ppm
Target Organs: Gastrointestinal tract
Method: OECD Test Guideline 408
drinking water
Unpublished reports

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
Published data
Analytical monitoring: yes
Harmful to aquatic invertebrates with long lasting effects.

Chronic Toxicity to aquatic plants

no data available

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

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

no data available

Ecotoxicity assessment

Acute aquatic toxicity
hydrogen peroxide
Toxic to aquatic life.

Chronic aquatic toxicity
hydrogen peroxide
Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Disposal
- Limited quantity
- Dilute with plenty of water.
- Flush into sewer with plenty of water.
- Maximum quantity
- 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.

SECTION 14: Transport information

ANTT

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
Limited Quantity per transport
333,00 KG
### 14.5 Environmental hazards

**NO**

### 14.6 Special precautions for user

**Hazard Identification Number:** 58

For personal protection see section 8.

### DOT

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>UN 2014</th>
</tr>
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<tbody>
<tr>
<td>14.2 Proper shipping name</td>
<td>HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS</td>
</tr>
<tr>
<td>14.3 Transport hazard class</td>
<td>5.1</td>
</tr>
<tr>
<td>Subsidiary hazard class</td>
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</tr>
<tr>
<td>Label(s)</td>
<td>5.1 (8)</td>
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<tr>
<td>14.4 Packing group</td>
<td>II</td>
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<td>Packing group</td>
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<tr>
<td>ERG No</td>
<td>140</td>
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### TDG

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>UN 2014</th>
</tr>
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<tr>
<td>14.2 Proper shipping name</td>
<td>HYDROGEN PEROXIDE, AQUEOUS SOLUTION</td>
</tr>
<tr>
<td>14.3 Transport hazard class</td>
<td>5.1</td>
</tr>
<tr>
<td>Subsidiary hazard class</td>
<td>8</td>
</tr>
<tr>
<td>Label(s)</td>
<td>5.1 (8)</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>II</td>
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<tr>
<td>Packing group</td>
<td></td>
</tr>
<tr>
<td>ERG No</td>
<td>140</td>
</tr>
</tbody>
</table>

### 14.5 Environmental hazards

**NO**

### 14.6 Special precautions for user

**Marine pollutant**

no data available

For personal protection see section 8.
RID
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 II
Classification Code OC1
14.5 Environmental hazards NO
14.6 Special precautions for user Hazard Identification Number: 58
For personal protection see section 8.

ADR
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 II
Classification Code OC1
14.5 Environmental hazards NO
14.6 Special precautions for user Hazard Identification Number: 58
Tunnel restriction code (E)
For personal protection see section 8.

IMDG
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 II
14.5 Environmental hazards NO
14.6 Special precautions for user Marine pollutant
EmS F-H , S-Q
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
no data available

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
Packing instruction (cargo aircraft): Not permitted for transport
Packing instruction (passenger aircraft): Not permitted for transport

14.5 Environmental hazards
NO

14.6 Special precautions for user
For personal protection see section 8.

IATA

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

<table>
<thead>
<tr>
<th>Inventory Information</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States TSCA Inventory</td>
<td>Listed on Inventory</td>
</tr>
<tr>
<td>Canadian Domestic Substances List (DSL)</td>
<td>Listed on Inventory</td>
</tr>
<tr>
<td>Australia Inventory of Chemical Substances (AICS)</td>
<td>Listed on Inventory</td>
</tr>
<tr>
<td>Japan. CSCL - Inventory of Existing and New Chemical Substances</td>
<td>Listed on Inventory</td>
</tr>
<tr>
<td>Korea. Korean Existing Chemicals Inventory (KECI)</td>
<td>Listed on Inventory</td>
</tr>
<tr>
<td>China. Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Listed on Inventory</td>
</tr>
<tr>
<td>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Listed on Inventory</td>
</tr>
<tr>
<td>Mexico INSQ (INSQ)</td>
<td>Listed on Inventory</td>
</tr>
<tr>
<td>New Zealand. Inventory of Chemical Substances</td>
<td>Listed on Inventory</td>
</tr>
<tr>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>If product is purchased from Solvay in Europe it is in compliance with REACH, if not please contact the supplier</td>
</tr>
</tbody>
</table>

SECTION 16: Other information
Full text of H-Statements referred to under sections 2 and 3.

- **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.
- **H332** Harmful if inhaled.
- **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.

NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is ",," (comma).