

HYDROGEN PEROXIDE

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SECTION 1: IDENTIFICATION

- 1.1 GHS Product identifier:**  
HYDROGEN PEROXIDE  
Hydroperoxide; Hydrogen Dioxide – supplied as an aqueous solution (commercial grades include 35%, 50% w/w and other strengths on request; physical/hazard data in this SDS reflect the 50% w/w grade)  
**CAS:** 7722-84-1
- Other means of identification:**  
Formula: H<sub>2</sub>O<sub>2</sub> | Molecular Weight: 34 g/mol
- 1.2 Recommended use of the chemical and restrictions on use:**  
Relevant uses: Versatile chemical used across industries for bleaching (pulp/paper, textiles), chemical synthesis, environmental control/effluent treatment, and sterilisation. For industrial user only.  
Uses advised against: All uses not specified in this section or in section 7.3.
- 1.3 Supplier's details:**  
**SURAJ CHEMICALS**  
No 92, Govindappa Naicken Street, Shiva Complex, Chennai – 600001, Tamil Nadu, India  
Tel: +91 - 7092722822, +91 - 9840284032 / +91 - 44 - 25393652, 42130281  
Email: sales@surajchemicals.com | Website: www.surajchemicals.com  
GST No: 33ACEPV8190L1ZZ
- 1.4 Emergency phone number:**  
Emergency Contact No: +91 - 7092722822, +91 - 9840284032

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**  
**GHS:**  
This mixture (aqueous solution, 50.0% w/w min.) is classified as Hazardous in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS):  
*Physical Hazard:*

| Hazard Class      | Hazard Category | H-Statement                         |
|-------------------|-----------------|-------------------------------------|
| Oxidizing liquids | Category 2      | H272 – May intensify fire; oxidizer |

*Health Hazard:*

| Hazard Class                | Hazard Category | H-Statement                             |
|-----------------------------|-----------------|-----------------------------------------|
| Skin Irritation             | Category 2      | H315 – Causes skin irritation           |
| Acute Toxicity – Oral       | Category 4      | H302 – Harmful if swallowed             |
| Acute Toxicity – Inhalation | Category 4      | H332 – Harmful if inhaled               |
| STOT – Single Exposure      | Category 3      | H335 – May cause respiratory irritation |
| Eye Damage                  | Category 1      | H318 – Serious eye damage               |

*Environmental Hazard:*

| Hazard Class           | Hazard Category | H-Statement                  |
|------------------------|-----------------|------------------------------|
| Acute Aquatic Toxicity | Category 2      | H401 – Toxic to aquatic life |

- 2.2 GHS label elements, including precautionary statements:**  
**GHS: Danger**  
Name(s) on label – Hazardous component: Hydrogen Peroxide (50.0% w/w min)
- Hazard statements:**  
H272: May intensify fire, Oxidizer.  
H315: Causes skin irritation.  
H302: Harmful if swallowed.  
H318: Serious eye damage.  
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.  
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.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
Response  
P301+P312+P330+P331: IF SWALLOWED: Call a POISON CENTRE or doctor/physician. Rinse mouth. Do NOT induce vomiting.  
P302+P353+P361: IF ON SKIN: Rinse skin with water/shower. Remove/take off immediately all contaminated clothing.  
P304+P340+P312: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.  
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 CENTRE or doctor/physician.  
P370+P378: In case of fire: Use water, use water spray for extinction.  
Storage  
P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
Disposal  
P501: Dispose of content by diluting with profuse water and in accordance with local/regional/national regulations.

- 2.3 Other hazards which do not result in classification or are not covered by the GHS:**  
H412: Harmful to aquatic life with long-lasting effects (Chronic Aquatic Toxicity, Category 3).

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:  
Not applicable – this product is a mixture (aqueous solution).

3.2 Mixtures:  
Chemical description: Hydrogen Peroxide, aqueous solution – CAS-No. 7722-84-1 – Concentration: 50.0% w/w min.

| Substance Name    | Hazard Class             | Hazard Category | Route of Exposure | H-Phrases |
|-------------------|--------------------------|-----------------|-------------------|-----------|
| Hydrogen Peroxide | Oxidizing liquid         | Category 1      | –                 | H271      |
|                   | Acute Toxicity           | Category 4      | Inhalation        | H332      |
|                   | Acute Toxicity           | Category 4      | Oral              | H302      |
|                   | Skin corrosion           | Category 1      | –                 | H314      |
|                   | STOT – Single exposure   | Category 3      | Inhalation        | H335      |
|                   | Acute aquatic toxicity   | Category 2      | –                 | H401      |
|                   | Chronic aquatic toxicity | Category 3      | –                 | H412      |

The hazard classification of the pure substance (component table above) is stricter than that of the 50% w/w aqueous solution supplied (Section 2), which is normal – dilution reduces the severity of the mixture’s classification versus the neat substance. To obtain more information on the hazards of the substances, consult sections 11, 12 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of necessary measures for different routes of exposure:

On inhalation:  
Remove to fresh air. If symptoms persist, call a physician.

In case of eye contact:  
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of difficulty opening the lids, administer an analgesic eye wash (oxybuprocaine). Consult an ophthalmologist immediately in all cases.

In case of skin contact:  
Remove and wash contaminated clothing before re-use. Wash off with plenty of water. Keep warm and in a quiet place. Consult a physician.

On ingestion:  
Call a physician immediately. Take the victim immediately to hospital. If the victim is conscious and swallowed the product, rinse mouth with water (only if conscious); do NOT induce vomiting. If the victim is unconscious but breathing, artificial respiration and/or oxygen may be necessary.

4.2 Most important symptoms/effects, acute and delayed:

Inhalation:  
Corrosive to respiratory system. Symptoms: breathing difficulties, cough, pulmonary oedema, nausea, vomiting. Prolonged exposure: nose bleeding, chronic bronchitis.

Skin contact:  
Corrosive. Causes severe burns. Symptoms: redness, swelling of tissue.

Eye contact:  
Corrosive. Causes severe burns. Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Symptoms: redness, lachrymation, swelling of tissue.

Ingestion:  
Severe burns to mouth and throat, danger of perforation of the oesophagus and stomach. Symptoms: nausea, abdominal pain, blood vomiting, suffocation, cough, severe shortness of breath. Risk of respiratory disorder.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Take the victim immediately to hospital. Consult with an ophthalmologist immediately in all cases. Burns must be treated by a physician. Keep under medical supervision for at least 48 hours.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:

Suitable: Water; water spray.  
Unsuitable: None.

5.2 Specific hazards arising from the chemical:

Oxygen released on thermal decomposition may support 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 Special protective actions for fire-fighters:

Evacuate personnel to safe areas. In the event of fire, wear self-contained breathing apparatus. When intervening in close proximity, wear an acid-resistant over-suit. Clean contaminated surfaces thoroughly.

Additional provisions:

Keep product and empty containers away from heat and ignition sources. Keep containers and surroundings cool with water spray. Approach from upwind. HAZCHEM Code: 2P.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:  
Prevent further leakage or spillage if safe to do so. Keep away from incompatible products.

For emergency responders:  
Evacuate personnel to safe areas. Keep people away from the upwind spill/leak. Use personal protective equipment. In case of contact with combustible material, keep material wet with plenty of water.

6.2 Environmental precautions:

Limited quantity: flush into sewer with plenty of water. Large quantities: if the product contaminates rivers, lakes or drains, inform the respective authorities.

6.3 Methods and materials for containment and cleaning up:

Dam up. Soak up with inert absorbent material. Dilute with plenty of water. Do not add chemical products. Keep in suitable, closed and properly labelled containers for disposal. Never return spills to original containers for re-use.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A. General precautions for safe use:  
Use only in well-ventilated areas. Keep away from heat and incompatible products. May not get in touch with organic materials. Use only equipment and materials compatible with the product.

B. Technical recommendations for the prevention of fires and explosions:

Before all operations, passivate the piping circuits and vessels per the procedure recommended by the producer. Never return unused material to the storage receptacle. Do not confine the product in a circuit, between closed valves, or in a container without a vent.

C. Technical recommendations on general occupational hygiene:

Use only in an area with adequate water supply. Containers and equipment used to handle the product should be used exclusively for that product.

D. Technical recommendations to prevent environmental risks:

Information about special precautions needed for bulk handling is available on request from Suraj Chemicals.

7.2 Conditions for safe storage, including any incompatibilities:

A. Specific storage requirements:

|                  |                                                                                      |
|------------------|--------------------------------------------------------------------------------------|
| Storage location | Shaded, well-ventilated place                                                        |
| Keep away from   | Heat, direct sunlight, incompatible products, combustible material                   |
| Container        | Store in original container equipped with a vent; keep closed; keep in a bunded area |

B. General conditions for storage:

Regularly check the condition and temperature of the containers. For additional information see subsection 10.5.

7.3 Packaging material:

Aluminium 99.5%; Stainless steel 304L/316L; approved grades of HDPE.

7.4 Specific end use(s):

For further information, please contact Suraj Chemicals.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

| Identification                      | Occupational Exposure Limit Type           | Value             |
|-------------------------------------|--------------------------------------------|-------------------|
| Hydrogen Peroxide<br>CAS: 7722-84-1 | WEL – Time Weighted Average (8-hr)         | 1 ppm / 1.4 mg/m³ |
|                                     | WEL – Short-Term Exposure Limit            | 2 ppm / 2.8 mg/m³ |
|                                     | TLV (NOHSC) – Time Weighted Average (8-hr) | 1 ppm / 1.4 mg/m³ |

8.2 Appropriate engineering controls:

Ensure adequate ventilation. Apply technical measures to comply with the occupational exposure limits.

B. Respiratory protection:

In case of emissions, use a face mask with type NO-P3 cartridge. Use self-contained breathing apparatus in medium confinement/insufficient oxygen, in case of large uncontrolled emissions, or whenever the mask and cartridge do not give adequate protection.

C. Specific protection for the hands:

Protective gloves, impervious and chemical resistant. Suitable material: PVC, natural rubber, butyl-rubber, nitrile rubber.

D. Eye and face protection:

Chemical-resistant goggles must be worn. Where splashes are likely: tightly fitting safety goggles and face-shield.

E. Bodily protection:

Protective suit. Where splashes are likely: apron and boots. Suitable material: PVC, rubber products.

F. Additional emergency measures:

Ensure safety showers are close to the workstation location. Eyewash bottle with pure water. Do not eat, drink or smoke when using.

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 (50% w/w grade):

| Appearance                                                       |                                                                                              |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Physical state at 20°C                                           | Liquid                                                                                       |
| Appearance                                                       | Liquid                                                                                       |
| Color                                                            | Colorless                                                                                    |
| Odor                                                             | Pungent                                                                                      |
| Odour threshold                                                  | Not available                                                                                |
| Volatility                                                       |                                                                                              |
| Boiling point/range (H <sub>2</sub> O <sub>2</sub> 50%)          | 115°C                                                                                        |
| Vapour pressure @ 20°C / 30°C / 50°C                             | 12 mbar / 1 mbar / 72 mbar (total pressure, H <sub>2</sub> O <sub>2</sub> +H <sub>2</sub> O) |
| Evaporation rate                                                 | Not available                                                                                |
| Product Description                                              |                                                                                              |
| Relative density (H <sub>2</sub> O <sub>2</sub> 50%)             | 1.2                                                                                          |
| Bulk density                                                     | Not applicable                                                                               |
| pH                                                               | < 2.0 (apparent pH)                                                                          |
| Vapour density (H <sub>2</sub> O <sub>2</sub> 50%)               | 1                                                                                            |
| Partition coefficient n-octanol/water (log Pow)                  | –1.1                                                                                         |
| Solubility in water                                              | Soluble – also soluble in polar organic solvents                                             |
| Decomposition temperature                                        | ≥ 60°C (SADT); < 60°C slow decomposition                                                     |
| Melting point/freezing point (H <sub>2</sub> O <sub>2</sub> 50%) | –52°C                                                                                        |
| Flammability                                                     |                                                                                              |
| Flash Point                                                      | Product is not flammable                                                                     |
| Flammability (solid, gas)                                        | The product is not flammable                                                                 |
| Autoignition temperature                                         | Not applicable                                                                               |
| Lower / Upper flammability limit                                 | Not applicable                                                                               |

9.2 Other information:

|                                                            |                                                         |
|------------------------------------------------------------|---------------------------------------------------------|
| Explosive properties                                       | Not explosive (with certain materials – see Section 10) |
| Oxidising properties                                       | Yes                                                     |
| Viscosity @ 20°C (H <sub>2</sub> O <sub>2</sub> 50%)       | 1.17 mPa.s                                              |
| Surface tension @ 20°C (H <sub>2</sub> O <sub>2</sub> 50%) | 75.6 mN/m                                               |

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity:**  
Potential for exothermic hazard. Decomposes on heating.
- 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. Risk of explosion if heated under confinement. Fire or intense heat may cause violent rupture.
- 10.4 Conditions to avoid:**

| Shock/Friction | Contact with Air | Increase in Temperature                       | Sunlight                       | Humidity            |
|----------------|------------------|-----------------------------------------------|--------------------------------|---------------------|
| Not applicable | Not applicable   | Do not overheat – avoid thermal decomposition | Keep away from direct sunlight | Avoid contamination |

- 10.5 Incompatible materials:**  
Acids, bases, metals, salts of metals, reducing agents, organic materials, flammable materials.
- 10.6 Hazardous decomposition products:**  
Oxygen. Release of other hazardous decomposition products is possible if contaminated with incompatible material.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects:**
- A. Ingestion (acute effect):**  
Oral LD50, rat: > 225 & < 1200 mg/kg bw (H<sub>2</sub>O<sub>2</sub> 50%).
- B. Inhalation (acute effect):**  
Inhalation LC50, 4h, rat: 2000 mg/m³ (Hydrogen Peroxide). Irritation (other route): inhalation, mouse, irritating to respiratory system, RD50 = 665 mg/m³.
- C. Contact with skin and eyes (acute effect):**  
Dermal LD50, rabbit: > 2000 mg/kg, corrosive (H<sub>2</sub>O<sub>2</sub> 50%). Skin irritation (rabbit): corrosive effect (H<sub>2</sub>O<sub>2</sub> 50%). Eye irritation: risk of serious damage to eyes (H<sub>2</sub>O<sub>2</sub> 50%).
- D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity):**  
Carcinogenicity – oral, prolonged exposure, mouse: target organ duodenum, carcinogenic effects observed; dermal, prolonged exposure, mouse: animal testing did not show carcinogenic effects. Reproductive toxicity: substance is totally biotransformed (metabolised); study considered scientifically unjustified.
- E. Sensitizing effects:**  
Guinea pig: did not cause sensitization in laboratory animal testing.
- F. Specific target organ toxicity (STOT) – single exposure:**  
Inhalation, mice, 665 mg/m³ (RD50) – irritating to respiratory system.
- G. Specific target organ toxicity (STOT) – repeated exposure:**  
Oral, 90-day, mouse: target organ gastrointestinal tract, 300 ppm LOAEL / 100 ppm NOAEL (pure substance). Inhalation, 28-day, rat: target organ respiratory system, 10 ppm LOAEL (vapour) / 2 ppm NOAEL (vapour), pure substance. Chronic toxicity – oral, prolonged exposure, various species: target organs gastrointestinal tract; inhalation, repeated exposure, dog: LOEL 14.6 mg/m³, irritant effects.
- H. Aspiration hazard:**  
No data available.
- Product-specific toxicological information:**

| Identification                      | Acute Toxicity                                                           | Genus  |
|-------------------------------------|--------------------------------------------------------------------------|--------|
| Hydrogen Peroxide<br>CAS: 7722-84-1 | LD50 oral: >225 & <1200 mg/kg bw (H <sub>2</sub> O <sub>2</sub> 50%)     | Rat    |
|                                     | LD50 dermal: > 2000 mg/kg, corrosive (H <sub>2</sub> O <sub>2</sub> 50%) | Rabbit |
|                                     | LC50 inhalation (4h): 2000 mg/m³                                         | Rat    |

SECTION 12: ECOLOGICAL INFORMATION

- Toxic to aquatic life. Harmful to aquatic life with long-lasting effects.**
- 12.1 Toxicity:**
- | Acute Toxicity                            | Species             | Genus      |
|-------------------------------------------|---------------------|------------|
| LC50: 16.4 mg/L (96h); NOEC: 5 mg/L (96h) | Pimephales promelas | Fish       |
| EC50: 2.4 mg/L (48h); NOEC: 1 mg/L (48h)  | –                   | Crustacean |
- Chronic toxicity:**
- | Chronic Toxicity                                         | Species            | Genus    |
|----------------------------------------------------------|--------------------|----------|
| NOEC: 2 mg/L (56 days)                                   | –                  | Molluscs |
| EC50 (growth rate): 4.3 mg/L (72h); NOEC: 0.1 mg/L (72h) | Chlorella vulgaris | Algae    |
- 12.2 Persistence and degradability:**  
Abiotic degradation: air (indirect photo-oxidation) t½ 16–20h; water (redox reaction) t½ 25–100h (fresh water), 50–70h (salt water); soil (redox reaction) t½ 0.05–15h. Biodegradation: readily biodegradable (aerobic, biological treatment sludge t½ < 2 min; fresh water t½ 0.3–5 days; soil t½ < 12 hrs); anaerobic/soil-sediment: not applicable.
- 12.3 Bioaccumulative potential:**  
Does not bioaccumulate.
- 12.4 Mobility in soil:**
- | Air                                                                        | Water                                                           | Soil/Sediments                             |
|----------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------|
| Henry's law constant (H) = 1 Pa.m³/mol @ 20°C – volatility not significant | Considerable solubility and mobility; product evaporates slowly | Non-significant evaporation and adsorption |
- 12.5 Results of PBT and vPvB assessment:**  
No data available.
- 12.6 Other adverse effects:**  
No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 Disposal methods:**  
Waste from residues/unused products: dilute with plenty of water and flush into sewer with plenty of water for limited quantities; for large quantities, contact the manufacturer/supplier; in all cases dispose in accordance with local and national regulations.  
Contaminated packaging: clean empty containers with water; dispose of rinse water in accordance with local and national regulations; do not rinse dedicated containers; empty, clean containers may be reused in conformity with regulations.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land (ADR 2023 / RID 2023):

|                                                          |                                                              |
|----------------------------------------------------------|--------------------------------------------------------------|
| 14.1 UN number                                           | UN2014                                                       |
| 14.2 UN proper shipping name                             | HYDROGEN PEROXIDE, AQUEOUS SOLUTION                          |
| 14.3 Transport hazard class(es)                          | 5.1 (Labels: 5.1, 8)                                         |
| 14.4 Packing group                                       | II                                                           |
| 14.5 Environmental hazard                                | Yes                                                          |
| 14.6 Special precautions for user                        | Physico-chemical properties: see section 9. HAZCHEM Code: 2P |
| 14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code) | Not relevant                                                 |

Transport of dangerous goods by sea (IMDG 41-22):

|                                                          |                                                                        |
|----------------------------------------------------------|------------------------------------------------------------------------|
| 14.1 UN number                                           | UN2014                                                                 |
| 14.2 UN proper shipping name                             | HYDROGEN PEROXIDE, AQUEOUS SOLUTION                                    |
| 14.3 Transport hazard class(es)                          | 5.1 (Sub-risk: 8)                                                      |
| 14.4 Packing group                                       | II                                                                     |
| 14.5 Marine pollutant                                    | No                                                                     |
| 14.6 Special precautions for user                        | EmS Number: F-H, S-Q. Labels: 5.1 – Oxidizing substance, 8 – Corrosive |
| 14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code) | Not relevant                                                           |

Transport of dangerous goods by air (IATA/ICAO 2024):

|                                                          |                                                                                                                                           |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 14.1 UN number                                           | UN2014                                                                                                                                    |
| 14.2 UN proper shipping name                             | Not permitted to transport by air at this concentration                                                                                   |
| 14.3 Transport hazard class(es)                          | Not permitted to transport                                                                                                                |
| 14.4 Packing group                                       | Not permitted to transport                                                                                                                |
| 14.5 Environmental hazard                                | –                                                                                                                                         |
| 14.6 Special precautions for user                        | IATA: forbidden for air transport over 40% w/w concentration – this 50% w/w grade is not permitted as cargo or passenger aircraft freight |
| 14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code) | Not relevant                                                                                                                              |

SECTION 15: REGULATORY INFORMATION

15.1 Label: Hazardous components which must be listed on the label: Hydrogen Peroxide. Classified as hazardous per applicable national occupational health & safety criteria.

Legacy (pre-GHS) classification, for reference:  
Symbol: C – Corrosive  
R-phrases(s): R8 – Contact with combustible material may cause fire; R34 – Causes burns.  
S-phrases(s): S1/2 – Keep locked up and out of the reach of children; S3 – Keep in a cool place; S28 – After contact with skin, wash immediately with plenty of water; S36/39 – Wear suitable protective clothing and eye/face protection; S45 – In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

15.2 Other information: The percentage concentration of the solution must be indicated next to the product name on any re-labelled package.

SECTION 16: OTHER INFORMATION

16.1 Text of phrases mentioned:  
WEL: Workplace Exposure Limit.  
TWA: Time Weighted Average.  
STEL: Short Term Exposure Limit.  
NOHSC: National Occupational Health and Safety Commission (reference standard cited in source data).  
H271: May cause fire or explosion; strong oxidizer.  
H272: May intensify fire; oxidizer.  
H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H315: Causes skin irritation.  
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.

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

16.2 NFPA (National Fire Protection Association) Classification:

| Health      | Flammability | Instability/Reactivity | Special Notices |
|-------------|--------------|------------------------|-----------------|
| 3 – Serious | 0 – Minimal  | 1 – Slight             | OX – Oxidizer   |

Advice related to training: Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources: Manufacturer's Safety Data Sheet for Hydrogen Peroxide (50% w/w Grade-3), prepared per GHS/EC No.1272/2008 classification framework and BIS standard IS 2080:2021.

Abbreviations and acronyms:  
ADR: European agreement concerning the international carriage of dangerous goods by road | IMDG: International maritime dangerous goods code | IATA: International Air Transport Association | ICAO: International Civil Aviation Organisation | EmS: Emergency Schedule | LD50: Lethal Dose 50 | LC50: Lethal Concentration 50 | EC50: Effective Concentration 50 | NOEC: No Observed Effect Concentration | LOEL/LOAEL: Lowest Observed (Adverse) Effect Level | NOAEL: No Observed Adverse Effect Level | SADT: Self-Accelerating Decomposition Temperature | Log Pow: Octanol-water partition coefficient

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within Suraj Chemicals' awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

END OF SAFETY DATA SHEET