



Centre Anti-Poison pour le Québec: (800) 463-5060

Tél. (Qc): (418) 660-8666 / 800-890-8666

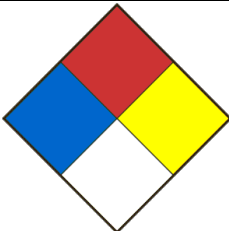
Fax. (Qc): (418) 660-8998

## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

|                                                                                                                                                                             |                                                                 |                                             |                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------|-----------------------|
| Product Identifier<br>HYDROGEN PEROXIDE (6%V/V from 35%W/W))                                                                                                                |                                                                 | Product Use<br>Laboratory use               |                       |
| Chemical formula<br>H <sub>2</sub> O <sub>2</sub>                                                                                                                           |                                                                 | Product code<br>HS-0906                     | Molar weight<br>34,02 |
| Chemical name / Commercial name / Synonymous<br>SOLUTION DE PEROXYDE D'HYDROGÈNE, DIOXYDE D'HYDROGÈNE, HYDROPROXYDE, ALBONE, PERHYDROL, PERONE, SUPEROXOL, 6% V/V du 35%P/P |                                                                 |                                             |                       |
| Supplier's name<br>Laboratoire MAT                                                                                                                                          |                                                                 | Address-Street<br>610, Adanac Street        |                       |
| City<br>Québec                                                                                                                                                              |                                                                 | Province<br>Québec                          |                       |
| Postal code<br>G1C 7B7                                                                                                                                                      | Internet<br>www.labmat.com                                      | Phone number<br>418-660-8666 / 800-890-8666 |                       |
| Emergency phone                                                                                                                                                             | CANUTEC: 613-996-6666 CENTRE ANTI-POISON DU QUÉBEC 800-463-5060 |                                             |                       |
| Date SDS<br>3/3/2021                                                                                                                                                        | SDS Prepared by<br>Laboratoire MAT                              | E-Mail<br>labmat@labmat.com                 |                       |

## SECTION 02 - HAZARDS IDENTIFICATION

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Classification WHIMS / GHS</b>                                                   | Serious eye damage/eye irritation - Serious eye damage category 1<br>Skin corrosion/irritation - Skin corrosion category 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Signal Word</b>                                                                  | DANGER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Hazards statements (H)</b>                                                       | H314 Causes severe skin burns and eye damage.<br>H318 Causes serious eye damage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Precautionary statements (P)</b>                                                 | P260 Do not breathe dust / fume / gas / mist / vapors / spray.<br>P264 Wash the areas of the body that have been in contact with the product after handling.<br>P280 Wear protective gloves/protective clothing/eye protection/face protection.<br>P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.<br>P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P310 Immediately call a POISON CENTER or doctor/physician.<br>P321 Specific treatment (see section 4 of the SDS and on this label).<br>P363 Wash contaminated clothing before reuse.<br>P405 Store locked up.<br>P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company. |
| <b>PICTOGRAMS</b>                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Other dangers</b>                                                                | NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|  | <b>Health</b> 1<br><b>Fire</b> 0<br><b>Reactivity</b> 1<br><b>Special danger</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

| Ingrédients (Dénomination chimique / synonymes) | Numéro CAS et tout identificateur unique | Concentration (%) |
|-------------------------------------------------|------------------------------------------|-------------------|
| Peroxyde d'hydrogène                            | 7722-84-1                                | 2                 |

## SECTION 04 - FIRST AID MEASURES

|                                                                        |                                                                                                                                                          |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>                                                     | Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention. |
| <b>Skin contact</b>                                                    | Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.                          |
| <b>Inhalation</b>                                                      | Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.                                                    |
| <b>Ingestion</b>                                                       | If the person is conscious, give water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.     |
| <b>Most important symptoms and effects (acute and delayed)</b>         | Main symptoms of high exposure: Skin whitening. Tingling. Skin irritation. Eyes irritation. Ref. section 11.                                             |
| <b>Immediate medical attention and special treatment, if necessary</b> | In case of medical consultation, keep this sheet available.                                                                                              |
| <b>General advice</b>                                                  | Show this safety data sheet to the doctor in attendance.                                                                                                 |

## SECTION 05 - FIREFIGHTING MEASURES

|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flammability</b>                                                  | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Ignition conditions</b>                                           | May ignite if product dries on clothing, wood or other combustible materials. May cause fire on contact with organic material.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Suitable extinguishing media</b>                                  | Water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Unsuitable extinguishing media</b>                                | Do not use dry chemical, they can accelerate the peroxide decomposition process.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Hazardous combustion products</b>                                 | The product itself does not burn. Peroxide breaks down into oxygen and water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Special fire and explosion hazards</b>                            | When concentrated, the product reacts according to the following characteristics: Oxidizer. May cause fire on contact with organic material. Its decomposition releases oxygen and increases the flammability and combustion rates of flammable vapors. Vapors concentrated to more than 40% can decompose explosively. Violent and explosive reactions may occur on contact alone or in combination with the following products: alcohols, carboxylic acids, nitrogen bases, ketones, hydrocarbons, heavy metal salts, metal oxides, metals, acetic acid, hydrochloric acid, chlorosulfonic acid, formic acid, phosphoric acid, sulfuric acid, tartaric acid, trifluoroacetic acid, acetaldehyde, vinyl, acetone, acetic anhydride, ammonia, aniline, antimony trisulfide, 2-butanone, 2-propanol, 3-pentanone, tin chloride, cellulose, charcoal, cyclohexanone, cyclopentanone, manganese dioxide, lead monoxide and dioxide, ethanol, ether, ethyl acetate, ferrous sulfate, formaldehyde, glycerine, hydrazine, hydrogen, lithium, methanol, palladium, phosphorus and its compounds, potassium, potassium permanganate, sodium, sodium hydroxide and toluene. May react violently with incompatible products (Ref Section 10). |
| <b>Special protective equipment and precautions for firefighters</b> | Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## SECTION 06 - ACCIDENTAL RELEASE MEASURES

|                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods and materials for containment and cleaning up /<br/>Personal precautions, protective equipment</b> | Evacuate personnel to safe areas. Absorb the product with sand or vermiculite. Dilute residues with water, clean and rinse. Ensure a good ventilation of the premises. Dispose of residues in a container for disposal of hazardous materials. When handling, wear suitable safety equipment. Use breathing apparatus if necessary. Avoid breathing vapors, mist or gas. |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 07 - HANDLING AND STORAGE

|                                    |                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conditions for safe storage</b> | Store in cool place. Keep container tightly closed and store away from heat, light, organic materials and incompatible materials. Protect from the sun's rays. Keep container tightly closed in a dry and well-ventilated place. Do not use pressure to empty the container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |
| <b>Methods of handling</b>         | Avoid contact with the skin, eyes and clothes. Avoid contact with combustible materials. Avoid inhalation of vapor or mist. Wear personal protective equipment when handling. Always ensure good ventilation. Transport according to TDG (ref Section 14)                                                                                                                |

## SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace control parameters

| Components        | CAS-No.                                                                                                                                | Value | Control parameters             | Basis                                                                                                                                   |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Hydrogen peroxide | 7722-84-1                                                                                                                              | TWA   | 1.000000 ppm<br>1.400000 mg/m3 | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)                                                                     |
| Remarks           | Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required |       |                                |                                                                                                                                         |
|                   |                                                                                                                                        | TWA   | 1.000000 ppm                   | Canada. British Columbia OEL                                                                                                            |
|                   |                                                                                                                                        | TWAEV | 1.000000 ppm<br>1.400000 mg/m3 | Canada. Ontario OELs                                                                                                                    |
|                   |                                                                                                                                        | TWAEV | 1.000000 ppm<br>1.400000 mg/m3 | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
|                   |                                                                                                                                        | TWA   | 1 ppm<br>1.4 mg/m3             | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)                                                                     |
|                   | Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required |       |                                |                                                                                                                                         |
|                   |                                                                                                                                        | TWA   | 1 ppm                          | Canada. British Columbia OEL                                                                                                            |
|                   |                                                                                                                                        | TWAEV | 1 ppm<br>1.4 mg/m3             | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
|                   |                                                                                                                                        | TWA   | 1.000000 ppm                   | USA. ACGIH Threshold Limit Values (TLV)                                                                                                 |
|                   |                                                                                                                                        | TWA   | 1 ppm                          | USA. ACGIH Threshold Limit Values (TLV)                                                                                                 |

|                            |                                                                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data source</b>         | Sigma-Aldrich.                                                                                                                                                                                 |
| <b>Ventilation</b>         | Fan.                                                                                                                                                                                           |
| <b>Respiratory</b>         | If the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.                                                              |
| <b>Gloves</b>              | Handle with gloves.                                                                                                                                                                            |
| <b>Eyes</b>                | Safety goggles with safety shutters.                                                                                                                                                           |
| <b>Shoes</b>               | Safety shoes.                                                                                                                                                                                  |
| <b>Clothing</b>            | Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.                                     |
| <b>Engineering control</b> | Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values. |

## SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

|                                       |                                                                   |
|---------------------------------------|-------------------------------------------------------------------|
| Physical state                        | Liquid.                                                           |
| Appearance                            | Liquide incolore-                                                 |
| Odour                                 | âcre.                                                             |
| Odour threshold                       | Data not available                                                |
| pH                                    | Concn wt% = 35, 50, 70, 90; corresponding pH: 4.6, 4.3, 4.4, 5.1. |
| Melting point / Freezing point        | Data not available                                                |
| Initial boiling point                 | Data not available                                                |
| Boiling range                         | Data not available                                                |
| Flash point                           | Data not available                                                |
| Evaporation rate                      | Data not available                                                |
| Flammability                          | No                                                                |
| Lower flammable / Explosive limit     | Data not available                                                |
| Upper flammable / Explosive limit     | Data not available                                                |
| Vapour pressure                       | Data not available                                                |
| Solubility                            | Miscible dans l'eau en toutes proportions.                        |
| Vapour density                        | Data not available                                                |
| Relative density                      | 1.008 g/ml (théorique)-                                           |
| Partition coefficient water/n-octanol | Data not available                                                |
| Auto-ignition temperature             | Data not available                                                |
| Decomposition temperature             | Data not available                                                |
| Viscosity                             | Data not available                                                |

## SECTION 10 - STABILITY AND REACTIVITY

|                                                                                           |                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                                                                | Oxidizer: risk of fire in case of contact with combustible / organic substance.                                                                                                                                                                                                                                  |
| Chemical stability                                                                        | Stable under recommended storage conditions.                                                                                                                                                                                                                                                                     |
| Possibility of hazardous reactions                                                        | Stable under normal conditions. Oxidizer.                                                                                                                                                                                                                                                                        |
| Conditions of instability (Including sensitivity to shock / static discharge / vibration) | Excessive heat, light and contaminations of all kinds.                                                                                                                                                                                                                                                           |
| Incompatible material                                                                     | When pure, the product reacts with the following products: Reducing agents (potassium, sodium, hydrides of metals), organic and / or combustible substances, alcohols, acetone, wood, fabrics, hydrocarbons, metal oxides and sulphides, copper, zinc, nickel, lead, fine metal powders, iron and its compounds. |
| Hazardous decomposition products                                                          | Hazardous decomposition products formed under fire conditions. Oxygen and water.                                                                                                                                                                                                                                 |

## SECTION 11 - TOXICOLOGICAL INFORMATION

### HYDROGEN PEROXIDE 30-35%

|                                           |                                                                                                                                                                                                                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Routes of exposure                        | Ingestion, inhalation, skin and eyes.                                                                                                                                                                                                                                 |
| Acute exposition effects / symptoms:      | By exposure route below.                                                                                                                                                                                                                                              |
| - Eyes                                    | Irritation and burns of the eye tissue that can lead to corneal ulceration and blindness.                                                                                                                                                                             |
| - Skin                                    | Irritation and tissue burns. May cause formation of vesicular lesions.                                                                                                                                                                                                |
| - Inhalation                              | Spasms, irritation and inflammation of the nose, throat and lungs. Edema of the larynx and bronchi. Chemical pneumonitis and pulmonary edema that can lead to death.                                                                                                  |
| Acute toxicity (Ingestion)                | Inflammation and ulceration of the mucous membranes of the mouth and throat. Burns of the esophagus, stomach and gastrointestinal tract. Sudden release of oxygen can cause distention of the esophagus and stomach causing internal bleeding that can lead to death. |
| Chronic exposure effects / symptoms       | Burning sensation, dermatitis, conjunctivitis, nervous disorders, liver and kidney damage, chest pain, cough, dyspnoea, laryngitis, headache, dizziness, tearing, erythema, fatigue, irritability, weight loss and loss of appetite, seizures, nausea and vomiting.   |
| DL50 (specify species and route of entry) | LD50 Oral - Rat - 693 mg/kg. LD50 Dermal - Rat - 2000 mg/kg                                                                                                                                                                                                           |
| CL50 (specify species and route of entry) | LC50 Inhalation - Rat - 4h - 2000 mg/m3.                                                                                                                                                                                                                              |

## SUMMARY

|                                    |                                                                                                           |
|------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Acute exposure effects / Symptoms: | By exposure routes below.                                                                                 |
| Ingestion                          | To our knowledge, the product has not been fully evaluated                                                |
| Inhalation                         | To our knowledge, the product has not been fully evaluated                                                |
| Skin                               | To our knowledge, the product has not been fully evaluated                                                |
| Eyes                               | To our knowledge, the product has not been fully evaluated                                                |
| Chronic exposure effects:          | To our knowledge, the product has not been fully evaluated                                                |
| ETA Mix (Estimated Acute Toxicity) | LD50 Oral : >5000 mg/kg - Rat<br>LD50 Dermal: >5000 mg/kg - Rat<br>LC50 Inhalation:>50000 mg/3 - 4h - Rat |

## SECTION 12 - ECOLOGICAL INFORMATION

|                               |                                                                                                                                                                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ecotoxicity                   | Hydrogen peroxide: Toxicity to fish: LC50 - Oncorhynchus mykiss (rainbow trout) - 22 mg/l - 96 h (Hydrogen peroxide) Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 24 mg/l - 48 h (Hydrogen peroxide) |
| Persistence and degradability | Biodegradability Readily biodegradable.                                                                                                                                                                                                          |
| Bioaccumulative potential     | Does not bioaccumulate.                                                                                                                                                                                                                          |
| Mobility in soil              | Data not available.                                                                                                                                                                                                                              |
| Other adverse effects         | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.                                                                                               |

## SECTION 13 - DISPOSAL CONSIDERATIONS

|                        |                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste Disposal Method  | Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company. |
| Contaminated Packaging | Dispose of as unused product.                                                                                                                                |

## SECTION 14 - TRANSPORT INFORMATION

|                            |     |
|----------------------------|-----|
| UN Number                  | N/R |
| UN Proper shipping name    |     |
| Transport hazard class(es) |     |
| Packing group              |     |
| Limited quantity index     |     |
| ERAP Index                 |     |
| Special precautions        |     |

## SECTION 15 - REGULATORY INFORMATION

|              |                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------|
| WHIMS CANADA | Serious eye damage/eye irritation - Serious eye damage category 1<br>Skin corrosion/irritation - Skin corrosion category 1 |
|--------------|----------------------------------------------------------------------------------------------------------------------------|

## SECTION 16 - OTHER INFORMATION

### Further information

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

Last Update: 3/3/2021