

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: 3% Hydrogen Peroxide
Part Number: ASTM E407-30 Part B
Relevant Use: For laboratory and manufacturing use only
Manufacturer: Sturbridge Metallurgical Services Inc.
City, State, Zip: Sturbridge MA 01566
Phone Number: 508-347-5288
Emergency Phone: CHEMTREC 1-800-424-9300 (USA)

Section 2: Hazard(s) Identification

Hazardous classification of the substance or mixture:

Hazard Class	Category Code
Skin Irritation	2
Eye Damage	1

Signal word: Danger

Pictogram:



Hazard Statements:

H315 - Causes skin irritation
H318 - Causes serious eye damage

Precautionary Statements:

P264 - Wash exposed skin thoroughly after handling
P280 - Wear protective gloves, eye protection
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician
P332+P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse

Hazards not otherwise classified: None under normal conditions

Section 3: Composition/Information on Ingredients

Chemical Name	CAS No.	% Concentration
Water	7732-18-5	97
Hydrogen Peroxide, 30-35%	7722-84-1	3

Section 4: First-Aid Measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after skin contact: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after inhalation: Assure fresh air breathing. Allow the victim to rest.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most important symptoms/effects, acute and delayed

Symptoms/Injuries after skin contact: Causes skin irritation

Symptoms/Injuries after eye contact: Causes serious eye damage

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

No additional information available

Section 5: Fire-Fighting Measures

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

Special hazards arising from the substance or mixture: No additional information available

Advice for firefighters: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

For non-emergency personnel

Protective equipment: safety glasses, gloves

Emergency procedures: Evacuate unnecessary personnel

For emergency personnel

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: ventilate area

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and materials for containment and cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Reference to other Sections:

See Heading 8. Exposure controls and personal protection

Section 7: Handling and Storage

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep only in the original container in a cool, well ventilated place away from : incompatible materials, combustible materials. Keep container closed when not in use.

Incompatible products: Strong bases. Strong reducing agents. Metals, combustible materials.

Incompatible materials: Sources of ignition. Direct sunlight.

Section 8: Exposure Controls/Personal Protection Exposure Limits

Component Hydrogen Peroxide 30-35%	(USA) / Exposure Limits
ACGIH TWA (mg/m ³)	1.4 mg/m ³
ACGIH TWA (ppm)	1 ppm
OSHA PEL (TWA) (mg/m ³)	1.4 mg/m ³
OSHA PEL (TWA) (ppm)	1 ppm

Exposure Controls

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

Personal protective equipment Hand protection: Avoid all unnecessary exposure.

Eye protection: Chemical goggles or safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Wear appropriate mask.

Other information: Do not eat, drink or smoke during use.

Section 9: Physical and Chemical Properties

Physical state: Liquid

Color: Clear, colorless

Odor: None

Odor threshold: No data available

pH: No data available

Relative evaporation rate (butylacetate=1) Melting point: No data available

Freezing point: No data available

Boiling point: No data available

Flash point: No data available

Self ignition temperature: No data available

Decomposition temperature Flammability (solid, gas): No data available

Vapour pressure: No data available

Relative vapour density at 20 °C No data available

Relative density: No data available

Density: 1

Solubility: Soluble in Water

Log Pow: No data available

Log Kow: No data available

Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

Explosive properties: No data available

Oxidising properties: No data available

Other information: No additional information available

Section 10: Stability and Reactivity

Reactivity: No additional information available

Chemical stability: Unstable to exposure to light

Possibility of hazardous reactions: Not established

Conditions to avoid: Direct sunlight. Extremely high or low temperatures

Incompatibilities: Strong reducing agents. Strong bases. Metals. Combustible materials.

Hazardous Decomposition Products: Oxygen

Section 11: Toxicological Information:

Information on toxicological effects

Acute toxicity: Not classified

Classification

Product/Ingredient Hydrogen Peroxide	
ATE (oral)	500.000 mg/kg bodyweight
ATE (gases)	4500.000 ppmV/4h
ATE (vapors)	11.000 mg/l/4h
ATE (dust, mist)	1.500 mg/l/4h

Product / Ingredient Water	
LD50 oral rat	≥ 90000 mg/kg

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Product/Ingredient Hydrogen Peroxide	
IARC group	3-Not classifiable

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

Potential Adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

Symptoms/injuries after skin contact: Causes skin irritation.

Symptoms/injuries after eye contact: Causes serious eye damage.

Likely routes of exposure: Inhalation; Skin and eye contact

Section 12: Ecological Information

Toxicity- No additional information available

Persistence and degradability: Not established

Bioaccumulative potential: Not established

Mobility in soil: No additional information available

Mobility: Liquid. Soluble in Water

Other adverse effects: Avoid release to the environment.

Section 13: Disposal Considerations

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.
Ecology-waste materials: Avoid release to the environment.

Section 14: Transportation Information

In accordance with DOT

No dangerous good in sense of transport regulations.

Other information: No supplementary information available.

Section 15: Regulatory Information

U.S. Federal Regulations

Hydrogen Peroxide, 3%

Not listed on the United States TSCS inventory

Hydrogen Peroxide, 30-35%

Listed on the United States TSCS inventory

International Regulations

Canada

Hydrogen Peroxide 3.3%:

WHMIS Classification: Class D Division 2 Subdivision B – Toxic material causing other toxic effects

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC Not classified

Section 16: Other Information

HMIS Rating

Health: 2

Flammability: 0

Physical Hazards: 1

Personal Protection: B

NFPA Rating

Health: 2

Flammability: 0

Reactivity: 1

Special: OX

Disclaimer: The information above is believed to be accurate and represents the best information currently available to us. SMS, Inc. makes no warranty, express or implied, as to its accuracy, and we assumes no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. We shall not be liable for any damages to person or property resulting from its use.