Section 1: CHEMICAL PRODUCT AND COMPANY INDENTIFICATION

Product Name:	35% Hydrogen Peroxide Solution
Part Number:	ETCH-H2O2 (all sizes)
Relevant Use:	Laboratory Chemicals
Manufacturer:	Sturbridge Metallurgical Services Inc.
City, State, Zip	Sturbridge MA 01566
Phone Number	508-347-5288
Emergency Phone:	**CHEMTREC 1-800-424-9300**

Section 2: Hazard(s) Identification

Hazardous classification of the substance or mixture:

Hazard Class	Category code
Oxidizing Liquids	2
Acute toxicity, Oral	4
Skin corrosion	1A
Serious eye damage	1
Acute aquatic toxicity	3

Pictogram:

Signal word: Danger

Hazard Statements:
H272- May intensify fire; oxidiser.
H302- Harmful if swallowed.
H314- Causes severe skin burns and eye damage.
H318- Causes serious eye damage.
H402- Harmful to aquatic life.

Precautionary Statements:
P210- Keep away from heat.
P220- Keep/Store away from clothing/ combustible materials.
P221- Take any precaution to avoid mixing with combustibles.
P264- Wash skin thoroughly after handling.
P270- Do not eat, drink or smoke when using this product.
P273- Avoid release to the environment.
P280- Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response Statements:
P301 + P312 + P330- IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P301 + P330 + P331- F SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310- IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

CENTER or doctor/ physician.
P305 + P351 + P338 + P310- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P363- Wash contaminated clothing before reuse.
P370 + P378- In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage Statement:
P405-Store locked up

Disposal statement:
P501-Dispose of contents in accordance with local, state, federal and international regulations.

Other hazards: None

HMIS Ratings:	**NFPA Ratings:**
Health: 3	Health: 3
Flammability: 0	Flammability: 0
Reactivity: 2	Reactivity: 2
Chronic Health Hazard: *	Special Hazard: OX

Section 3: Composition/Information on Ingredients

Chemical Name	CAS No.	% Concentration
Hydrogen Peroxide	7722-84-1	>=30 - < 50%
Water	7732-18-5	Balance

Section 4: First-Aid Measures

First-aid measures general
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area

First-aid measures after inhalation
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

First-aid measures after skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

First-aid measures after eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during transport to hospital.

First-aid measures after ingestion
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5: Fire-Fighting Measures

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture
Oxygen
Nature of decomposition products not known.

Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

Further Information
Use water spray to cool unopened containers.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Reference to other sections
For disposal see section 13.

Section 7: Handling and Storage

Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Recommended storage temperature 2 - 8 °C

Section 8: Exposure Controls/Personal Protection Exposure Limits

Component	CAS No.	ACGIH TLV	OSHA PEL
Hydrogen Peroxide	7722-84-1	1.4 mg/m^3 (TWA)	1.4 mg/m^3
Water	7732-18-5	NA	NA

Personal protective equipment

Eye/face protection-Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection- Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9: Physical and Chemical Properties

Physical state: Liquid
Appearance: Form: liquid, clear
Color: colorless
Odor: No data available
Odor Threshold: No data available
pH: No data available
Melting Point: -40 °C
Freezing Point: (-40 °F)
Boiling Point: 126 °C (259 °F) at 1,013 hPa (760 mmHg)
Flash Point: No data available
Relative evaporation rate: No data available
Flammability (solid, gas): No data available
Explosion limits: No data available
Explosive properties No data available
Oxidizing properties No data available
Vapor pressure: 31.1 hPa (23.3 mmHg) at 30 °C (86 °F)
Vapor density: 1.17 - (Air = 1.0)
Relative density: 1.130 g/cm3
Water Solubility: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available
Explosive properties: No data available
Oxidizing properties: The substance or mixture is classified as oxidizing with the category 2
Other: Relative vapor density 1.17 – (Air = 1.0)

Section 10: Stability and Reactivity

Reactivity: No data available
Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: No data available
Conditions to avoid: No data available
Incompatibilities: Brass, Copper, Powdered metals, Iron, Iron and iron salts.
Hazardous Decomposition Products: Other decomposition products - No data available In the event of fire: see section 5

Section 11: Toxicological Information:

Acute Toxicity – No data available
Inhalation: No data available
Dermal: No data available
Skin corrosion/irritation: No data available
Respiratory or skin sensitization: No data available
Germ cell mutagenicity No data available

Carcinogenicity
IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrogen peroxide)
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

Reproductive toxicity: No data available
Specific target organ toxicity: - single exposure No data available
Specific target organ toxicity: - repeated exposure No data available
Aspiration hazard: No data available
Additional Information: RTECS: Not available
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence (Hydrogen peroxide)

Section 12: Ecological Information

Toxicity-No data available
Ecology – water: Harmful to aquatic life.
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

Section 13: Disposal Considerations

Dispose in a safe manner in accordance with all local/national regulations. Dispose of contents/container in accordance with all federal, state, and local health and environmental regulations.
Avoid release to the environment.

Section 14: Transportation Information

Department of Transportation (DOT, United States of America)
UN number: 2014
Class: 5.1 (8)
Packing Group: II
Proper Shipping Name: Hydrogen Peroxide, aqueous solutions
Poison inhalation hazard: No

IMDG and IATA
UN number: 2014
Class: 5.1 (8)
Packing group: II
Proper shipping name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION

Section 15: Regulatory Information

SARA 302 Components
The following components are subject to reporting levels established by SARA Title III, Section 302:
Hydrogen Peroxide CAS No. 7722-84-1

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know Components
Hydrogen Peroxide CAS No. 7722-84-1

Pennsylvania Right to Know Components
Hydrogen Peroxide CAS No. 7722-84-1
Water CAS No. 7732-18-5

New Jersey Right to Know Components
Hydrogen Peroxide CAS No. 7722-84-1
Water CAS No. 7732-18-5

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other Information

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.