



ELECTRO-CHEMICAL DEVICES

Liquid Analytical Instrumentation for Process Control

Bringing Simplicity
to a Solution

SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION

Trade Name: SMS Reagent #1

Product Number: 2010041-1

Manufactured By: Electrochemical Devices, Inc.
1681 Kettering
Irvine, CA 92614

Phone #: 1-800-692-1333

SECTION 2 – HAZARDS IDENTIFICATION

Potential Health Effects: Irritant in case of skin contact, of eye contact, of ingestion, or of inhalation.



Hazard Pictograms:

Signal Word: Danger

Hazard statement(s):

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

H335: May cause respiratory irritation.

Precautionary Statement(s):

P234 Keep only in original container.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.



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P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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.

P321 Specific treatment (see supplemental first aid instructions on this label).

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P406 Store in corrosive resistant stainless steel container with a resistant inner liner.

P501 Dispose of contents/ container to an approved waste disposal plant



HMIS rating (Scale 0-4):

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Ingredients:	Potassium Hydroxide	16%	CAS #: 1310-58-3
	De-Ionized Water	Balance	CAS #: 7732-18-8

SECTION 4 – FIRST-AID MEASURES

First Aid Procedure:

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.



ELECTRO-CHEMICAL DEVICES

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If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

SECTION 5 – FIRE-FIGHTING MEASURES

Fire-Fighting Procedures:

Flammability of the Product: Non-Flammable

Extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Hazards arising from the substance or mixture: Potassium Oxides

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

Further information: Do not use halocarbon extinguishers.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill-control Procedures:

Small Spill: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Environmental precautions: Do not let product enter drains.

SECTION 7 – HANDLING AND STORAGE

Precautions:

Avoid contact with skin and eyes. Avoid inhalation of vapor and mist.

Storage:

Keep in a tightly closed container and store in a dry and well-ventilated place.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION



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Engineering Controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protection: Gloves. Lab Coat. Safety Goggles.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance: Liquid

Odor: Not available.

Taste: Not available.

Molecular Weight: 101.96 g/mol

Color: Colorless

pH (1% soln/water): Not available

Boiling Point: Not available

Melting Point: Not available

Critical Temperature: Not available.

Specific Gravity: Not available

Vapor Pressure: Not available

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff: Not available.



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Ionicity (in Water):	Not available.
Dispersion Properties:	Not available.
Solubility:	Soluble in water.

SECTION 10 – STABILITY AND REACTIVITY DATA

Stability:	Not available
Instability Temperature:	Not available.
Conditions of Instability:	Stable under recommended storage conditions.
Incompatibility:	Water, Light metals, Alkali metals, Metals, Organic materials, Copper, reacts violently with:, vigorous reaction with: Halogens, Nitro compounds, Magnesium, Azides, Contact with aluminum, tin and zinc liberates hydrogen gas. Contact with nitromethane and other similar nitro compounds causes formation of shock-sensitive salts
Corrosivity:	Non-corrosive in presence of glass.
Remarks on Reactivity:	Not available.
Remarks on Corrosivity:	Not available.
Polymerization:	Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation. Ingestion. Eyes.
Toxicity to Animals:	<i>Draize test, rabbit, skin:</i> 50 mg/24H Severe <i>Oral, rat: LD50</i> = 273 mg/kg Specific target organ toxicity: Not available



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Carcinogenicity: Not applicable

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Not available.

Toxicity of the Products of Biodegradation: Not available.

Remarks on the Products of Biodegradation: Not available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Waste must be disposed of in accordance with federal, state and local environmental regulations.

SECTION 14 – TRANSPORT INFORMATION

DOT Classification: *UN number:* 1814 *Class:* 8 *Packing group:* II
Proper shipping name: Potassium hydroxide, solution
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG: *UN number:* 1814 *Class:* 8 *Packing group:* II *EMS-No:* F-A, S-B



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Proper shipping name: POTASSIUM HYDROXIDE SOLUTION

Marine pollutant: No

IATA:

UN number: 1814 **Class:** 8 Packing group: II

Proper shipping name: Potassium hydroxide solution

SECTION 15 – OTHER REGULATORY INFORMATION

Federal and State Regulations:

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 313: 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: Acute Health Hazard

Other Regulations:

Not applicable.

DSCL (EEC):

Not applicable.

Protective Equipment:

Not applicable.

SECTION 16 – OTHER INFORMATION

References:

Not applicable

Other Special Considerations:

Not applicable

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