NFPA

HMIS

Health Hazard	3
Fire Hazard	0
Reactivity	2

PPE (See Section 15)

Section 1. Chemical Product and Company Identification

Trade Name: **Metal Analysis Test 5**

Manufacturer:
HazTech Systems, Inc.
P.O. Box 627
164 Dinsmore
Fortuna, CA 95540

Synonyms: Sodium hydroxide, MA-5

Chemical Formula: NaOH

Supplier:
Spectrum Chemical Mfg. Corp.
14422 S. San Pedro St.
Gardena, CA 90248

Code: RE/MA5

CAS #: 1310-73-2

RTECS: WB4900000

TSCA: TSCA 8(b) inventory:
Sodium hydroxide

CI #

In case of emergency contact CHEMTREC
(24 hours) at 800-424-9300

HazTech Systems, Inc. 800-337-2497

Spectrum Chemical Mfg. Corp. 310-516-8000

Section 2. Composition and Information on Ingredients

		Exposure Limits			
Name	CAS #	TWA (mg/m3)	STEL	CEIL (mg/m3)	% by Weight
Sodium hydroxide	1310-73-2			2	100%

Toxicological Data on Ingredients: Sodium hydroxide LD50: Not available. LC50: Not available.

Section 3. Hazards Identification

Potential Acute Health Effects: Extremely hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion. Very hazardous in case of inhalation. Slightly hazardous in case of skin contact (permeator). The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects: CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.
The substance is toxic to lungs, mucous membranes.
Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage.

Section 4. First Aid Mearsures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Ingestion	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Section 5. Fire and Explosion Data

Flammability	Non-flammable.
Auto-Ignition Temperature	Not applicable.
Flash Point	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not applicable.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	Not applicable.
Special Remarks on Fire Hazards	Not applicable.

Section 6. Accidental Release Measures

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid.

Section 7. Handling and Storage

Precautions	If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Do not breathe dust.
Storage	Keep in HazCat Kit.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use in a well ventilated area.
Personal Protection	Gloves and goggles.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Solid	Volatility	Not available
Molecular Weight	40 grams/mole	Odor Threshold	Not available
pH (1% Solution in Water)	14 (Basic)	Water/Oil Dist. Coeff.	Not available
Boiling Point	1390°C (2534°F)	Ionicity (in Water)	Not available
Melting Point	318.4°C (605.1°F)	Dispersion Properties	Not available
Critical Temperature	Not available	Solubility	Easily soluble in water
Specific Gravity	2.13 (Water = 1)	Odor	Not available
Vapor Pressure	Not available	Taste	Not available.
Vapor Density	Not available	Color	White

Section 10. Stability and Reactivity Data

Stability	Product is stable.	Corrosivity	Slightly corrosive to corrosive in presence of glass.
Instability Temperature	Not available.		
Conditions of Instability	Not available.	Special Remarks on Corrosivity	Not available.
Incompatability with Various Substances	Extremely reactive or incompatible with acids.	Polymerization	Will not polymerize.

Section 11. Toxicological Information

Route of Entry	Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Not available.
Chroinc Effects on Humans	The substance is toxic to lungs, mucous membranes.
Other Toxic Effects on Humans	Extremely hazardous in case of skin contact (corrosive, irritant), of ingestion. Very hazardous in case of inhalation. Slightly hazardous in case of skin contact.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Not available.

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products mayarise.
Toxicity of the Products of Biodegradation	The products of degradation are more toxic.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Disposal Recycle to process, if possible. Consult your local or regional authorities.

Section 14. Transport Information

DOT Classification CLASS 8: Corrosive solid.

Identification : Sodium hydroxide, solid : UN1823 PG: II

Special Provisions for Transport Not applicable.

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations Pennsylvania RTK: Sodium hydroxide
Massachusetts RTK: Sodium hydroxide
TSCA 8(b) inventory: Sodium hydroxide

California Proposition 65 Warnings

Other Regulation OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other classifications WHMIS (Canada) CLASS E: Corrosive solid.

DSCL (EEC) R35- Causes severe burns.

Section 16. Other Information

Catalog Number(s) RE/MA5

References Not available.

Other Special Considerations Not available.

Validated by R. Houghton 8/06/01

Verified by R. Turkington

Call 1-800-543-5487

Notice to Reader