Material Safety Data Sheet

Reactivity



HMIS Health Hazard Fire Hazard 0

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PPE (See Section 15)

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Section 1. Chemical Product and Company Identification				
Trade Name	Metal Analysis Test 4	Code	RE/MA4	
		CAS #	1336-21-6	
Manufacturer	HazTech Systems, Inc. P.O. Box 627	RTECS	BQ9625000	
Commercial Name	164 Dinsmore Fortuna, CA 95540 Ammonium hydroxide	TSCA	TSCA 8(b) inventory: Ammonium hydroxide	
	MA-4	CI #		
Synonyms	MA-4	CI#		
			emergency contact CHEMTREC at 800-424-9300	
		HazTech S	ystems, Inc. 800-337-2497	
Chemical Formula	NH4OH	Spectrum (Chemical Mfg. Corp. 310-516-8000	
Supplier	Spectrum Chemical Mfg. Corp. 14422 S. San Pedro St. Gardena, CA 90248			

Section 2. Composition and Information on Ingredients

	Exposure Limits				
Name	CAS #	TWA (mg/m3)	STEL	CEIL (mg/m3)	% by Weight
Ammonium hydroxide	1336-21-6				100%

Toxicological Ammonium hydroxide: ORAL (LD50): Acute: 350 mg/kg (Rat). Data on

NFPA

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Ingredients

Section 3. Hazards Identification

Potential Acute	Extremely hazardous in case of eye contact (irritant). Very hazardous in case of skin contact (irritant), of
Health Effects	ingestion, of inhalation. Hazardous in case of skin contact (corrosive). Slightly hazardous in case of skin contact
	(permeator). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth
	and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation
	of respiratory tract, characterized by coughing, choking, or shortness of breath. Inflammation of the eye is
	characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening,
	or, occasionally, blistering.
Potential Chronic	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available.
Health Effects	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 or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

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Section 4. First A	Section 4. First Aid Mearsures			
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.			
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.			
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.			
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.			

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.	Section 6. Accidental Release Measures			
Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate 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			
Storage	Keep in HazCat Kit.			
Section 8.	Exposure Controls/Personal Protection			
Engineering (Controls Use in a well ventilated area.			
Personal Prote	ection Gloves and goggles.			

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Section 9. Physical and Cl	nemical Properties				
Physical State and Appearance	Liquid		Volatili	ty	Not available
Molecular Weight	Not available		Odor T	hreshold	5 ppm
pH (1% Solution in Water)	12 (Basic)		Water/O	Dil Dist. Coeff.	Not available
Boiling Point	Not available		Ionicity	(in Water)	Not available
Melting Point	Decomposes.		Dispers	ion Properties	Not available
Critical Temperature	Not available		Solubili	ty	Water
Specific Gravity	0.898 (Water = 1)		Odor		Not available
Vapor Pressure	63.3 kPa (@ 20°C)		Taste		Not available
Vapor Density	Not available		Color		Colorless
Section 10. Stability and	l Reactivity Data				
Stability	Product is stable.			Corrosivity	Non-corrosive in presence of glass.
Instability Temperature	Not available.			Special Remark on Corrosivity	xs Not available.
Conditions of Instability	Not available.			Polymerization	Will not polymerize.
Incompatability with Various Substances	Not available.			Torymenzation	will not polymenze.
Section 11. Toxicological	Information				
Route of Entry		Eye contact. In	halation.	Ingestion.	
Toxicity to Animals Chroinc Effects on Humans Other Toxic Effects on Humans Special Remarks on Toxicity to Animals Special Remarks on Chronic Effects on Humans		Acute oral toxicity (LD50): 350 mg/kg (Rat). Causes damage to the following organs: lungs, mucous membranes. Extremely hazardous in case of eye contact (corrosive), of inhalation (lung corrosive) Very hazardous in case of skin contact (irritant), of ingestion, . Hazardous in case of skin contact (corrosive). Slightly hazardous in case of skin contact (permeator). Not available. Not available.			
Special Remarks on Other Toxic Effects on Humans		Not available.			
Section 12. Ecological Infe	ormation				
Ecotoxicity		Not available.			
BOD5 and COD		Not available.			
Products of Biodegradation		Possibly hazardous short term degradation products are not likely. However,			
Toxicity of the Products of Biodegradation		long term degradation products mayarise. The products of degradation are more toxic.			
Special Remarks on the Products	Not available.				

Section 13. Disposal Considerations			
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Waste Disposal Recycle to process, if possible. Consult your local or regional authorities.			
Section 14. Transport I	nformation		
DOT Classification Class	s 8: Corrosive material		
Identification : Am	: Ammonia Solution UNNA: UN2672 PG: III		
Special Provisions Not for Transport	s Not applicable.		
Section 15. Other Regu	ilatory Information and Pictograms		
Federal and State Regulations	Pennsylvania RTK: Ammonium hydroxide Massachusetts RTK: Ammonium hydroxide TSCA 8(b) inventory: Ammonium hydroxide CERCLA: Hazardous substances.: Ammonium hydroxide		
California Proposition 65 Wa	rnings		
Other Regulation	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).		
Other classifications	WHMIS (Canada) CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS E: Corrosive liquid.		
	DSCL (EEC) R22- Harmful if swallowed. R35- Causes severe burns.		
Section 16. Other Information			
Catalog Number(s)	RE/MA4		
References	Not available.		
Other Special Considerations	Not available.		

Verified by R. Turkington

Call 1-800-543-5487

Notice to Reader

Validated by

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Haztech Systems, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

R. Houghton 8/06/01