MATERIAL SAFETY DATA SHEET (MSDS) MATERIAL SAFETY DATA SHEET

EM SCIENCE

11. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer	Preparation Date.: 3/26/98
EM SCIENCE	
A Division of EM Industries	Information Phone Number.: 856-423-6300
P.O. Box 70	Hours: Mon. to Fri. 8:30-5
480 Democrat Road	Chemtrec Emergency Number: 800-424-9300
Gibbstown, N.J. 08027	Hours: 24 hrs a day

Catalog Number(s):

752X 753X

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Product Name:
Acid Alcohol
Synonyms:
None
ical Family:
Acidic Alcohol Solution
Formula:
Solution
Molecular Weight .:
N/A

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	Appr %	
Methanol			
	67-56-1	3-5%	
Hydrochloric Acid			
	7647-01-0	3-5%	
Ethyl Alcohol			
	64-17-5	60-95%	

Product 752X also contains 27% water (CAS# 7732-18-5). Approx. % as wt/vol

AZARDS IDENTIFICATION

EMERGENCY OVERVIEW FLAMMABLE LIQUID AND VAPOR. VAPOR HARMFUL.

MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. CANNOT BE MADE NON-POISONOUS. May Cause Damage To Liver, Kidneys, Gastrointestinal Tract and

Cardiovascular System.

IT TATING TO SKIN, EYES AND MUCOUS MEMBRANES.

Appearance:

Clear liquid, fragrant, characteristic alcoholic odor

POTENTIAL HEALTH EFFECTS (ACUTE AND CHRONIC)

Symptoms of Exposure:

Can be fatal or cause blindness if swallowed in quanty. Chronic exposure (inhalation or ingestion) can cause damage to gastrointestinal tract, liver, kidneys and cardiovascular system. Causes headache, dizziness, nausea, narcosis. Contains dilute HCl. Irritating on contact with skin, eyes or mucous membranes.

Medical Cond. Aggravated by Exposure:

Impaired liver or kidney function; heart and GI conditions.

Routes of Entry: Inhalation, ingestion or skin contact.

Carcinogenicity:

The material is not listed (IARC, NTP, OSHA) as cancer causing agent.

4. FIRST AID MEASURES

Emergency First Aid:

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE. Skin: Wash thoroughly with soap and water. Eyes: Immediately flush thoroughly with water for at least 15 minutes. Inhalation: Remove to fresh air; give artificial respiration if breathing has stopped. Ingestion: If conscious, drink water and induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flash Point (F): 57F (oc) Flammable Limits LEL (%): 3.3 Flammable Limits UEL (%): 19 Extinguishing Media: I Chemical, "Alcohol" foam, CO₂, Water mist.

Fire Fighting Procedures: Wear self-contained breathing apparatus.

Fire & Explosion Hazards:

Dangerous fire and explosive hazard. Closed containers may explode upon heating. Vapor can travel distances to ignition source and flash back.

CCIDENTAL RELEASE MEASURES

Spill Response:

Evacuate the area of all unnecessary personnel. Wear suitable protective equipment listed under Exposure / Personal Protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if this can be done without risk. Take up and containerize for proper disposal as described under Disposal. Comply with Federal, State, and local regulations on reporting releases. Refer to Regulatory Information for reportable quantity and other regulatory data.

EM SCIENCE recommends Spill-X absorbent agents for various types of spills. Additional information on the Spill-X products can be provided through the EM SCIENCE Technical Service Department (609) 423-6300. The following EM SCIENCE Spill-X absorbent is recommended for this product:

SX0863 Solvent Spill Treatment Kit

7. HANDLING AND STORAGE

Handling & Storage:

Keep container closed. Store in a cool area away from ignition sources and oxidizers. Do not breath vapor or mist. Do not get in eyes, on skin, or on clothing. Electrically ground all equipment when handling this product.

SEATOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT:

Ventilation, Respiratory Protection, Protective Clothing, Eye Protection:

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier). Engineering and/or administrative controls should be implemented to reduce exposure. Material should be handled or transferred in an approved fume hood or with adequate ventilation. Protective gloves must be worn to prevent skin contact (Butyl Rubber, Viton or equivalent) Safety glasses with side shields must be worn at all times.

Work/Hygenic Practices:

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

EXPOSURE GUIDELINES

OSHA - PEL:

	T	AW	ST	EL		CL	
Component	PPM	MG/M3	· PPM	MG/M3	PPM	MG/M3	Skin
anol		·····		<u></u>			
	200	260	250	325			х
Hydrochlori	c Acid						
					5	7	
Ethyl Alcoh	nol						
-	1000	1900					

ACGIH - TLV:

	TWA		STEL		CL		
oponent	PPM	MG/M3	PPM	MG/M3	PPM	MG/M3	Skin
Methanol		<u> </u>					
	200	262	250	328			х
Hydrochlor	ic Acid						
			5	7.5	5	7.5	
Ethyl Alcol	hol						
	1000	1880					

If there are no exposure limit numbers listed in the Exposure Guidelines chart, this indicates that no OSHA or ACGIH exposure limits have been established.

9. PHYSICAL AND CHEMCIAL PROPERTIES

Boiling Point (C 760 mmHg) : 78C Melting Point (C) : N/A Specific Gravity (H₂0 = 1) : 0.79 Vapor Pressure (mm Hg) : 40 19C Percent Volatile by vol (%): 20% Vapor Density (Air = 1) : 1.59 Looration Rate (BuAc = 1): N/A Solubility in Water (%) : Soluble Appearance : Clear liquid, fragrant, characteristic alcoholic odor

10. STABILITY AND REACTIVITY

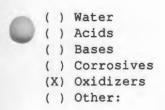
Stability: Yes

Hazardous Polymerization: Does not occur

Hazardous Decomposition: CO., Formaldehyde, Cl

Conditions to Avoid: Heat; contact with ignition source.

Materials To Avoid:



11. TOXICOLOGICAL INFORMATION

Rity Data

None established

Toxicological Findings: None Cited in Registry of Toxic Effects of Chemical Substances (RTECS)

12. DISPOSAL CONSIDERATIONS

EPA Waste Numbers: D001 D002

Treatment:

Incineration, fuels blending or recycle. Contact your local permitted waste disposal site (TSD) for permissible treatment sites. ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

TRANSPORT INFORMATION

DOT Proper Shipping Name: Ethyl Alcohol Solutions

DOT ID Number : UN1170

14. REGULATORY INFORMATION

TSCA Statement:

This product is a "Mixture". The CAS numbers of all components are listed on the TSCA Inventory.

Component	SARA EHS (302)	SARA EHS TPQ (lbs)	CERCLA RQ (lbs)
Methanol			5000
Hydrochloric Ac	id		5000
E Alcohol	Y	500	5000

OSHA SARA DeMinimis

· Component	Floor List	313	for SARA 313 (%)
Methanol			
	Y	Y	1.0
I ochloric I	Acid		
	Y	Y	1.0
Ethyl Alcohol			
	Y		

If there is no information listed on the regulatory information chart, this indicates that the chemical is not covered by the specific regulation listed.

15. OTHER INFORMATION

Comments:

None

NFPA Hazard Ratings:

Health: 1Flammability: 3Reactivity: 0Special Hazards:



| = Revised Section
N/A = Not Available
N/E = None Establised

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