

Material Safety Data Sheet

Product Name: Mach

page 1/1

Manufactured by:
Randall Industries, LLC
4565 Hemlock Road
Cherry Tree, PA 15724

Section I

Emergency Phone Number: 1-800-535-5053
Phone Number for Information: 1-814-743-6630
MSDS Revision: Aug 02, 2011

Section II - Hazardous Ingredients

Ingredient(s):	CAS No:	OSHA PEL	ACGIH TLV
Ethyl alcohol denatured	64-17-5	1000 ppm	1000 ppm
Alkyl Dimethyl Benzyl Amm. Chl. (c12-18)	68391-01-5	N/D	N/D
Alkyl Dimethyl Eth. Benz. Amm.chl. (c12-14)	68956-79-6	N/D	N/D
Hydrogen Chloride	7647-01-0	5 ppm	5 ppm

HMIS: 301

NFPA: 301

N/A=Not Applicable N/D=Not Determined

Section III - Physical / Chemical Data

Appearance:	Milky white	Solubility in Water:	100% complete	
Odor:	Acidic	Specific Gravity:	1.094	Water = 1
pH:	< 2	Vapor Pressure:	5	mm Hg
Boiling Point:	> 212 (> 100)	Vapor Density:	1.27	Air = 1
Melting Point:		Evaporation Rate:	2.0	Butyl Acetate = 1

Section IV - Fire And Explosion Hazards

Flash Point: None to IBP °F (°C) (CC) Flammable Limits: for hydrogen chloride LEL: none UEL: none

Extinguishing Media: Use water fog, foam, dry chemical or Carbon Dioxide.

Special Fire Fighting Procedures: Wear an approved self-contained breathing apparatus and protective clothing.

Fire / Explosive Hazards: Can react with chemically reactive metals such as aluminum, zinc, magnesium, copper, etc. to release hydrogen gas which is combustible.

Section V - Reactivity Data

Stability: Stable Unstable

Hazardous Polymerization: May occur Will not occur

Incompatibility: Alkali materials and metals.

Hazardous Decomposition Products: Flammable Hydrogen gas when reacted with certain metals.

Conditions to Avoid: None known.

Section VI - Health Hazard Data

Primary Routes of Entry: Inhalation Skin Contact Ingestion

Health Hazards: Eyes: may cause irreversible damage.
Skin: may cause irreversible damage.
Inhalation: may cause damage to mucous membranes and deep tissues.

Carcinogenicity: NTP IARC Monographs OSHA Regulated Not a carcinogen

Signs and Symptoms of Exposure: Irritating to eyes & skin. Burning, redness, irritation.
Ingestion: May cause vomiting, headache and other medical problems.
Inhalation: May cause coughing, sneezing, and upper respiratory irritation.

Conditions Generally Aggravated by Exposure: Pre-existing eye, skin & respiratory disorders may be aggravated with contact.

Emergency and First Aid Procedures: Eyes & Skin: Flush with water for 15 minutes, if irritation persists get medical attention.
Ingestion: Do not induce vomiting. Drink water, milk of magnesia. Get medical attention.
Inhalation: Move to fresh air.

Section VII - Precautions for Safe Handling and Use

If Material is Released or Spilled: Small spill: cover contaminated area with sodium bicarbonate or soda ash and add water if necessary to form a slurry. Large spill: dike to prevent spreading

Wastes Disposal Method: Dispose of in accordance with federal, state, and local regulations.

Precautions for Handling and Storing: Always add acids to water.

Other Precautions: Container may be under pressure. Do not weld empty container, vapors may ignite.

Section VIII - Control Measures

Respiratory Protection: Chemical cartridge respirator if exposure limits are exceeded Ventilation: Mechanical (General)

Protective Gloves: Rubber Gloves

Eye Protection: Chemical goggles

Other Protective Equipment: Impervious clothing and boots.

Work/Hygenic Practices: Wash hands before eating. Launder contaminated clothing before re-use.