

MATERIAL SAFETY DATA SHEET

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Updated: 07/07/2004

Emergency Telephone: 888-296-5236

Section 1 - Product Information

Product Name: Liquid Steel 2200 (B component)

Description: Aliphatic Amine

Synonyms: None

Molecular Formula: Mixture

Chemical Family: Amidoamine

Section 2 - Hazardous Ingredients

Chemical Names(s):	%	CAS Number	OSHA	PEL
Formaldehyde, polymer with benzeneamine, hydrogenated	>30	135108-88-2	NE	NE
Tetraethylenepentamine(TEPA)	<10	112-57-2	NE	NE
Nonylphenol		25154-52-3	NE	NE

The remaining components are trade secret
NE = Not Established

Section 3 - Physical Properties

Color: Off White

Odor: Amine

Description: Mobile Liquid

Evaporation Rate: No Data

Boiling Point: > 385 F

Specific Gravity: 0.99

PH: Alkaline

Solubility in water: <1% @ 25C

Section 4 - Fire and Explosion Data

Flash Point: 267 F (Cleveland Closed Cup)

Extinguishing Media: Use water fog, Foam, CO2 or dry chemical extinguishing media.

Fire Fighting Procedures: Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

Unusual Hazards: Decomposition and combustion products may be toxic.

Section 5 - Health Effects

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Overexposure Effects: Burns in the eye may cause blindness. Contact of undiluted product with the skin or eyes quickly cause severe irritation and pain and may cause burns, necrosis and permanent injury.

Chronic Overexposure Effects: There are no known chronic effects associated with this material.

Health Harards:

Harmful if swallowed

Corrosive to eyes

Corrosive to skin

Severe eye irritant

Severe skin irritant

May cause skin sensitization

First Aid Procedures:

Skin: Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.

Eyes: Immediately rinse eyes with running water for 15 minutes. If irritation develops, get medical attention.

Ingestion: If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

Inhalation: Move to fresh air. Aid in breathing, if necessary and get immediate medical attention.

Section 6 - Reactivity Data

Stability Data: Stable

Incompatibility: None known.

Hazardous Polymerization: Does not occur.

Corrosive Properties: Not corrosive

Oxidizer Properties: Not an oxidizer.

Section 7 - Personal Protection

Clothing: Gloves, coveralls, apron and boots as necessary to prevent contact.

Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.

Respiration: If vapors or mist are generated, wear a NIOSH/MSHA approved if allergies to said product exist.

Ventilation: Open all doors windows to allow for adequate air flow and circulation.

Section 8 - Spill and Leak/Environmental

Spills should be contained and placed in suitable containers for disposal in a licensed facility. This material is not regulated by RCRA or CERCLA.

Waste Disposal: Incinerate or bury as a solid in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

Container Disposal: Recommend crushing or other means to prevent unauthorized reuse.

Other Emergency Advice: Wear protective clothing, boots, gloves and eye protection.

Section 9 - Regulatory Information

RCRA Hazardous Waste Number: N/A

CERCLA: No

HAZARD RATING: Health- 3

Fire- 1

Reactivity- 0

Special: NA

This product is not a physical hazard according to the OSHA Hazard Communication Standard;

The information contained herein is to our knowledge true and accurate. All recommendations and suggestions are made without guarantee, since the conditions of use are beyond our control.