

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: : **Super Sap® 1000 Hardener**

Product Use Description: : Modified polyamide for curing epoxy resins

Company: : Entropy Resins, Inc.
18525 S Main St
Gardena, CA 90248

Contact numbers / Emergency: : Los Angeles: (310) 882-2120
: 24/7 Emergency Hotline: (760) 476-3962
: Global Response Access Code: 333178

2. COMPOSITION/ INFORMATION ON INGREDIENTS

<u>CAS Number</u>	<u>Components</u>	<u>WT %</u>
Confidential	Polyamide Polymer Solution	>25%
26950-63-0	Teta, reaction products with propylene oxide	<15%
112-24-3	Triethylenetetramine	<5%
100-51-6	Benzyl Alcohol	<25%

Chemical Family: Polyamide

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

3. HAZARDS IDENTIFICATION

Emergency Overview: Causes severe irritation if inhaled, severe skin irritation, severe eye irritation, and may cause skin and eye burns. Can cause allergic respiratory reaction and allergic skin reaction.

Xi, N Irritant, toxic to aquatic environment

R 36/38 Irritating to eyes and skin.
R 43 May cause sensitization by skin contact.
R51/53 Toxic to aquatic organism. May cause long term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Symptoms and effects: Irritation of the skin and eyes.
First Aid - Inhalation: Remove to fresh air.
First Aid - Skin: Do not delay. Immediately wash skin with water using soap if available. Remove contaminated clothing and launder before reuse. Destroy contaminated shoes.
If persistent irritation occurs, obtain medical attention.
First Aid - Eye: Do not delay. Immediately flush eyes with water for at least 15 minutes. Seek immediate medical attention.

First Aid - Ingestion:	Do not induce vomiting unless directed to do so by medical personnel. In the unlikely event of ingestion, obtain medical attention immediately. Never give anything by mouth to an unconscious person.
Overexposure Effects:	Causes severe irritation if inhaled, severe skin irritation, severe eye irritation, and may cause skin and eye burns. Can cause allergic respiratory reaction and allergic skin reaction.
Advice to Physicians:	If skin sensitisation has developed and a causal relationship has been confirmed, further exposure should not be allowed.

5. FIRE FIGHTING MEASURES

Flash Point:	> 212 °F (> 100 °C)
Flash Point Method Used:	Closed Cup
Fire Fighting Extinguishing Media:	Dry chemical powder, carbon dioxide, foam, water spray or fog, sand or earth.
Fire Fighting Equipment:	Use full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid all personal contact with skin, eyes and clothing
Personal protection:	Wear protective clothing specified for normal operations (see section 8).
Environmental precautions:	Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers. If material enters drains it should be pumped out into a open vessel. Emergency services may need to be called to assist in this operation.
Clean-up methods- small spillage:	Absorb or contain liquid with sand, earth or other absorbent spill control material. Shovel material to labelled sealable container for safe disposal. Do not use sawdust, wood chips or other cellulosic materials to absorb the spill, as the possibility for spontaneous combustion exists. Wash spill residue with warm, soapy water if necessary.
Large spillage:	Transfer to a labelled container for product recovery or safe disposal. Otherwise treat as for small spillage.

7. HANDLING AND STORAGE

Signal Word:	Danger!
Precautions:	Causes severe irritation if inhaled, severe skin irritation, severe eye irritation, and may cause skin and eye burns. Can cause allergic respiratory reaction and allergic skin reaction. Do not breath vapor mist. Do not get in eyes, on skin, or on clothing. Keep clothing
Handling:	Avoid contact with skin, eyes and clothing
Storage:	Keep container tightly closed and dry to prevent moisture absorption and contamination.
Storage temperatures:	Ambient.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational exposure standards:	None established.
Respiratory protection:	Not normally required. In a confined space wear half mask respirator with organic vapour cartridge and build-in particular filter NPF 20 (gas only). If product is applied by spraying wear self contained breathing apparatus.
Skin protection:	Wear impervious nitride rubber gloves or butyl rubber gloves, gauntlet type.
Eye protection:	Monogoggles.
Body protection:	Standard issue work clothes, safety boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Amber
Odor:	Amine
Density:	.97 – 1.2 g/cm ³ @ 20 °C (68 °F)
Vapor Pressure:	.1 Pa at 20 °C (68 °F)
Boiling Point:	> 200 °C (>392 °F)
Decomposition Temperature:	> 200 °C (>392 °F)
Evaporation Rate:	<1 (Butyl Acetate = 1)
Flash point:	>100 °C (212 °F)

Solubility in water Moderate

10. STABILITY/REACTIVITY

Stability: Stable under normal use conditions. Reacts with strong oxidizing agents, bases, and acids. Polymerizes exothermically with amines, mercaptans and Lewis acids at ambient temperature and above. Polymerizes in contact with bases (eg caustic soda), ammonia, primary and secondary amines, alcohols and acids.

Conditions to avoid: Caustic soda can induce a vaporous polymerisation at temperatures over 150 °C.

Materials to avoid: Strong oxidizing agents, bases, and acids. Caustic soda.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, aldehydes, nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Eye irritation: Severe irritant.

Skin irritation: Severe irritant.

Respiratory irritation: Severe irritant.

Sensitization: Causes allergic skin and respiratory sensitivity in some people.

12. ECOLOGICAL INFORMATION

Mobility: No data available

Persistence/degradability: No data available

Bioaccumulation: No data available

Acute toxicity - fish: No data available

13. DISPOSAL CONSIDERATIONS

Precautions: See section 8. Refer to section 7 before handling the product or containers.

Waste disposal: Recover or recycle product and container, if possible. Otherwise incineration or dispose to licensed contractor in accordance with federal, state and local regulations.

Product disposal: Drain container thoroughly. Rinse three times with suitable solvent. Treat rinses as for product disposal. After draining, vent in a safe place away from sparks.

Local legislation: Control of Pollution Act 1974.
Control of Pollution (Special waste) Regulations 1980.
Environmental Protection Act 1990.

14. TRANSPORT INFORMATION

49 CFR

The product is not covered by international regulation on the transport of dangerous goods.

IATA

The product is not covered by international regulation on the transport of dangerous goods.

IMDG

The product is not covered by international regulation on the transport of dangerous goods.

15. REGULATORY INFORMATION

US Federal Regulations:

OSHA: This material safety data sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261)

SARA Title III: Section 313 Toxic Chemical List (TCL): This product does not contain any chemicals for routine annual toxic chemical release reporting under Section 313 (40 CFR 372)

TSCA Section 8(b) – Inventory Status: All chemical components of this product are in compliance with TSCA inventory requirements.

TSCA Section 12(b) – Export Notification: This product does not contain any chemicals that are subject to a Section 12(b)

16. OTHER INFORMATION

Uses and restrictions: - Compositions for the building and civil engineering industries e.g. flooring compounds, primers, adhesives, mortars, joints and grouts
 - Offshore & Marine applications

SDS distribution: This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organisation responsible for advising on safety matters.

USER'S RESPONSIBILITY / DISCLAIMER OF LIABILITY: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as a guarantee of any specific property of the product.

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This bulletin cannot cover all possible situations that the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to develop appropriate work practice guidelines and employee instructional programs for your operation.
