

NIDA CORE

STRUCTURAL HONEYCOMB MATERIALS

Material Safety Data Sheet

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SECTION I Product Identification

Product Name: Core Bonding Compound
Product Numbers: 4001, 4021
Product Class: Unsaturated Polyester Resin
Shipping Description: RESIN SOLUTION, UN1866, CLASS 3, PG III
 MARINE POLLUTANT (CONTAINS STYRENE MONOMER)

SECTION II Hazardous Ingredients

COMPONENT	% WT.	CAS NO.	EXPOSURE LIMITS			
			PPM	MG/M ³	PPM	
STYRENE*	24 - 30	100-42-5	TWA	50	215	5000
			PEL	100	425	
			STEL	100	425	

HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 2

* SARA SECTION 313 CHEMICAL

SECTION III Physical Data

Boiling Point (Styrene)	293°F	Specific Gravity (H ₂ O = 1.0)	1.1
Melting Point	N/A	Percent Volatile by Volume	24-28
Vapor Pressure (Styrene)	3.56 MM Hg	Solubility in H ₂ O	N/A
Vapor Density (Air = 1)	2.98		

SECTION IV**Fire and Explosion Hazard Data**

Flash Point (Styrene)
Flammable Limits (Percent by Volume)

90 °F PENSKEY-MARTEN CLOSED CUP
LEL : 1.10%
UEL : 6.10%

Extinguishing Media:
Special Fire Fighting Procedures:

Use foam, carbon dioxide or chemical fire fighting apparatus. Cool tanks and drums with water. Firefighters should wear self contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards:

High temperature exposure for extended periods of time will result in spontaneous uncontrolled exothermic polymerization.

SECTION V**Reactivity Data**

Stability:

Stable under normal conditions. Avoid exposure to temperatures above 100 °F or 38°C.

Incompatibility:

Avoid contact with strong mineral acids, peroxides, oxidizing agents, and polymerization catalysts.

Hazardous Polymerization:

Can occur

Hazardous Decomposition Products:

Thermal decomposition may yield carbon monoxide/dioxide, low molecular weight hydrocarbons, and organic acids.

SECTION VI**Health Hazards**

MAJOR EXPOSURE HAZARD: INHALATION, SKIN CONTACT, EYE CONTACT

Effects of overexposure:

Eye Contact:

Severe irritation, redness, tearing, blurred vision

Skin Contact:

Prolonged or repeated exposure can cause moderate irritation, defatting, dermatitis, and sensitization.

Inhalation:

Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, and headache. High concentrations may result in narcosis (central nervous system depression).

Ingestion:

Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into lungs can cause chemical pneumonitis, which can be fatal.

Chronic exposure may cause damage to the central nervous system, respiratory system, lungs, eyes, skin, gastrointestinal tract, liver, spleen, and kidneys.

Other health effects: IARC (International Agency for Research on Cancer) has re-classified styrene from a Group 3 substance to a Group 2B substance. This is not based on any significant new evidence that styrene might be carcinogenic, but rather on a broadening of the definition for Group 2B classification.

SECTION VII**Emergency and First Aid Procedures**

- Inhalation:** Remove from exposure. If breathing is stopped, administer artificial respiration or oxygen as indicated. Seek medical aid; if symptoms persist, consult a physician.
- Skin Contact:** Remove contaminated clothing and wash skin thoroughly with soap and water. If irritation continues, seek medical aid.
- Eye Contact:** Flush with large amounts of water for at least 15 minutes. Call a physician.
- Ingestion:** Do not induce vomiting. Call a physician.

SECTION VIII**Special Protection Information**

- Skin Contact:** Polyvinyl alcohol gloves and polyethylene garments are recommended.
- Eye Contact:** OSHA compliant goggles or face shields recommended.
- Ventilation:** Local exhaust ventilation should be used to control the emission of air contaminants. General dilution ventilation may assist with the reduction of contaminate concentrations.
- Other Equipment:** Emergency eye wash stations should be located in the work areas.

SECTION IX**Special Precautions in Storage and Handling**

Avoid prolonged or repeated contact with skin. Avoid eye contact. Store in a cool dry place away from oxidizers. Do not store in direct sunlight. Work with adequate general and local exhaust ventilation to minimize exposure to vapors.

SECTION X**Regulatory Status**

TSCA STATUS: This substance or mixture appears on the TOXIC SUBSTANCES CONTROL ACT INVENTORY.

SARA Hazard categories (section 311 and section 312): Reactivity, Immediate Health, Delayed Health, Fire

Hazardous Material Identification System

Health: 2

Flammability: 3

Reactivity: 2

NFPA Rating (Nat'l Fire Protection Association)

Health: 2

Flammability: 3

Reactivity: 2

SECTION XI**DISCLAIMER**

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