

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Flex Coat Rod Glue Hardener

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Section 1 –Product and company information

Flex Coat Company, Inc.

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Product name: Flex Coat Rod Glue Hardener
Product class: Epoxy Hardener
Product number: G4, G8, G32, G128

Date prepared: 7/29/2014
Prepared by: Technical department

Section 2 –Hazardous ingredients/identity information

Hazardous components	Cas Reg.no.	Approx Wt.%
Nonyl phenol	84852-15-3	TS
N-aminoethylpiperazine	140318	TS
Modified Aliphatic Amine	Mixture	24

Section 3 –Health hazard data

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: This liquid is corrosive to the eyes and skin if contact occurs. Severe irritation and chemical burns may result. Eye damage could be permanent. Inhalation of the vapors or mists may result in respiratory irritation.

Ingestion may result in gastric disturbances.

Chronic Overexposure Effects: Repeated skin contact may cause dermatitis. Repeated inhalation may cause lung damage.

Section 4 –Emergency and 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: Flush with copious amounts of water for at least 15 minutes. Hold eyelids open to facilitate rinsing. Seek medical assistance immediately.

Ingestion: If swallowed, dilute with water. DO NOT 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.

Notes to Physicians: Swallowing of this material may result in severe ulceration, inflammation and possible perforation of the upper alimentary tract. If evacuation of stomach is necessary, use method least likely to cause aspiration.

Aggravated Medical Conditions: No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product.



Section 5 –Fire and explosion hazard data

Flash point (method used): 310 F (PMCC)

Flammable limits:

lower explosion limit: Not determined.

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upper explosion limit: Not determined.

Extinguishing media: Foam, CO₂, dry chemical, or water spray. Water or foam may cause frothing.

Special fire fighting procedures: Cool unopened containers with water spray to prevent rupture.

Unusual fire and explosion hazards: None expected.

Section 6 –Accidental release measures

Steps to be taken if material is released or spilled: Keep spectators away. Ventilate area. Avoid contact with skin, eyes or clothing. Stay upwind. Floor may be slippery; spread absorbent material. Clean up any spills immediately. Prevent entry into sewers and waterways.

Section 7 –Precautions for safe handling and use

Waste disposal method: Incinerate or landfill; always dispose of waste in accordance with existing federal, state or local environmental regulatory controls.

Precautions to be taken in handling and storing: Store in cool area, keep all containers closed when not in use. Water contamination should be avoided. Eye wash and safety shower should be available when this product is handled.

Other precautions: Do not let children use this material without adult supervision.

Section 8 –Control measures

Respiratory protection (specify type): When exposure limits are exceeded, wear NIOSH ammonia approved respirator or mask supplied with external air.

Ventilation: Local exhaust ventilation if generating vapor, dust, or mist. If exhaust ventilation is not available, use MSHA or NIOSH approved respirator as appropriate.

Skin protection: Workers should wash exposed skin several times daily with soap and water. Soiled clothing should be laundered.

Eye protection: Glasses or goggles with splash guards.

Other protective clothing or equipment: As necessary to prevent skin contact.

Work/hygienic practices: Wash hands before eating, smoking, or using restroom.

Exposure limit for product: None established.

Section 9 –Physical/chemical characteristics

Appearance: Colorless liquid

Odor: Slight phenolic

Boiling point (degrees C): 293

Melting/Freezing point (degrees C): Not determined.

Specific gravity (water=1): 0.95

pH: 11.3

Vapor pressure: <1 mmHg @ 20 C

VOC content: <1% by ASTM D 2369

Vapor density (air=1): >1

Solubility in water (%): >10

Section 10 –Reactivity data

Stability Data: No data available.

Incompatibility: Exothermic reaction with acids.

Conditions/Hazards to Avoid: Acids.

Hazardous Decomposition/Polymerization: Does not occur.

Hazardous Decomposition Products: Toxic levels of ammonia, combustion products of nitrogen, carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning in a limited air supply.

Corrosive Properties: Corrosive.

Oxidizer Properties: No data available.

Section 11 –Toxicological information

Toxicology Test Data: Rat, Oral LD50 - 220 MG/KG Highly Toxic

Rabbit, Dermal LD50 - 614 MG/KG Moderately Toxic

Rabbit, Primary Skin Irritation - Corrosive

Rabbit, Eye Irritation - Corrosive

Section 12 –Ecological information

Aquatic toxicity: LC50-96hr rating is < 0.10ppm extremely toxic.

Mobility: This product is hydrophobic and will adsorb to soils.

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Persistence and biodegradability: This product is not readily biodegradable under laboratory conditions and is expected to slowly biodegrade in the environment.

Potential to bioaccumulate: Low to moderate potential to bioconcentrate.

Remarks: None.

Section 13 –Disposal considerations

Waste disposal methods: This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. It is the responsibility of the user to determine if the product meets the RCRA criteria for hazardous waste at the time of disposal. This material should be disposed of in accordance with all local, state and federal regulations.

Section 14 –Transportation information

Department of Transportation information:

Proper shipping name: Consumer Commodity

Proper hazard class: ORM-D

Section 15 –Regulatory information

Federal Regulations:

SARA Title III

Section 302 Extremely Hazardous Substances:

Chemical name

CAS Number

Range in %

None.

Section 311 Hazardous Catagorization: Acute

Section 313 Toxic Chemicals:

Chemical name

CAS Number

Range in %

None.

CERCLA 102(a)DOT Hazardous Substances:

Chemical name

CAS Number

Range in %

None.

TSCA Inventory Status:

This product, or its components, are listed on or exempt from the Toxic Substance Control Act (TSCA).

State Regualtions:

California Proposition 65:

The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity:

Chemical name

CAS Number

None.

International Regulations:

WHMIS Classification:

Not regulated.

Canadian Inventory Status:

Not regulated.

EINECS Inventory Status:

Not regulated.

Australian Inventory Status:

Not regulated.

Japan Inventory Status:

Not regulated.

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Section 16 –Other information

All information, recommendations, and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his or her own use of the product described herein. Since the actual use by others is beyond Flex Coat's control, no guarantee, expressed or implied, is made by Flex Coat as to the effects of such use, the results to be obtained, or the safety and toxicity of the product.