



ShaliProtek[®] NES 70

2K Anti- Corrosive Chemical Resistant Novalac Based Phenolic Epoxy



Material Safety Data Sheet

Identification of the substance/preparation and of the company/undertaking

Trade Name	ShaliProtek[®] NES 70
Intended Use	Used to protect Steel, Concrete Structure from chemicals
Company Name	STP Limited 43 Nehru Place 707 Chiranjiv Towers, New Delhi 110019, India Phone : +91 11 46561359 Fax : +91 11 46561358
Emergency Information	Phone : +91 81302 98888 Fax : +91 11 46561358

[1] Composition / information on ingredients

Ingredient	CAS Number	Weight(%)
Component A- Bisphenol A Epoxy resin	65996-89-6	10-25
Epichlorohydrin and Phenol formaldehyde novalac resin	028064-14-4	10-35
Mixed Xylene	1330-20-7	4-10
Pigment paste	NA	1-5
Solvent MEK	78-93-3	1-6
Barytes	7727-43-7	20-40
Additives	Trade secret	0.5-3
Component B- Amine Adduct	NA	15-40

The exact chemical identity and/or exact percentage (concentration) of each ingredient may be held as confidential business information (CBI). Any ingredient not disclosed in this section may have been determined not to be hazardous to health or the environment, or it may be present at a level below its disclosure threshold.

[2] Hazards Identification

Emergency Overview	
It is very unlikely that normal work operations with epoxy system could produce concentrations that are harmful to human.	
GHS Label Element	 Danger
Hazard statements	Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects.



[3] First-aid Measures

Skin Contact:	SYMPTOMS: Causes skin irritation. May cause allergic skin reaction and sensitization. RESPONSE: Remove contaminated clothing. Wipe excess from skin. Apply waterless skin cleaner and then wash with soap and water. Consult a physician if effects occur.
Eye Contact:	SYMPTOMS: Causes serious irritation and redness. RESPONSE: Flush immediately with water for at least 15 minutes. Remove contact lenses if present and easy to do. Consult a physician as precautionary measure.
Inhalation:	SYMPTOMS: Not a likely route of exposure under normal conditions of use. RESPONSE: Remove to fresh air if respiratory irritation occurs and keep comfortable for breathing.
Ingestion:	SYMPTOMS: No acute adverse health effects expected from amounts ingested under normal conditions of use. RESPONSE: Seek medical attention if a significant amount is ingested.

[4] Fire-fighting Measures

Flash Point: >30 °C	Method: Abel's Closed Cup	Auto ignition Temperature: Approx. 500 °C
Flammable Limits:	UFL: 7%	LFL: 1%
Extinguishing media:	SUITABLE: Foam, carbon dioxide (CO ₂), dry chemical. NON-SUITABLE: Direct water stream.	
Fire and Explosion Hazards	During a fire, smoke may contain the original materials in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include, but are not limited to: phenolics, carbon monoxide, and carbon dioxide.	
Special Fire Fighting Procedures	Wear a self-contained breathing apparatus and complete full-body personal protective equipment. Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat.	

[5] Accidental Release Measures / Spills and Leaks

Emergency Procedures	Keep unnecessary and unprotected personnel from entering area. Use appropriate safety and personal protective equipment as indicated in Section 7.
Mitigation and Clean up Procedures	Stop leak without additional risk. Isolate area. Dike and absorb with inert material (e.g., sand) and collect in a suitable, closed container. Warm, soapy water or non-flammable, safe solvent may be used to clean residual.
Environmental Precautions	Prevent from entering into soil, ditches, sewers, waterways and groundwater.
Special Instructions:	Remove all contaminated clothing to prevent further absorption. Decontaminate affected personnel using the first aid procedures. Leather shoes that have been saturated must be discarded.



[6] Handling & Storage

Storage	Store in cool, dry place. Store in tightly sealed containers to prevent moisture absorption and loss of volatiles. Excessive heat over long periods of time will degrade the resin.
Storage Temperature (Min/Max)	5°C/50°C
Handling Precautions	Avoid all skin and eye contact. Wash thoroughly after handling. Launder contaminated clothing before reuse. Avoid inhalation of vapors from heated product. Precautionary steps should be taken when curing product in large quantities. When mixed with epoxy curing agents this product causes an exothermic, which in large masses, can produce enough heat to damage or ignite surrounding materials and emit fumes and vapors that vary widely in composition and toxicity.

[7] Exposure Controls / Personal Protection

Engineering Controls	Use with adequate general ventilation and/or local ventilation to keep exposures below established limits.
Eye Protection Guidelines	Safety glasses with side shields or chemical splash goggles.
Skin Protection Guidelines	Wear liquid-proof, chemical resistant gloves (nitrile-butyl rubber, neoprene, butyl rubber or natural rubber) and full body-covering clothing.
Respiratory Protection Guidelines	When ventilation cannot be made adequate enough to keep exposures below established limits, use a NIOSH approved respirator with an organic vapor cartridge, or organic vapor cartridge + P100 particulate filter, depending on specific workplace conditions. Use and select a respirator according the guidelines established in OSHA 1910.134 or other applicable respiratory protection standard.

[8] Ventilation

Ventilation:	All operations should be conducted in well-ventilated conditions. Local exhaust ventilation should be provided.
Other Engineering Controls:	All available engineering controls to minimize risk should be used.

[9] Physical & Chemical Properties

Appearance	Comp A- Colored viscous liquid Comp B- Light brown low viscous liquid
Odour	Characteristic odour of mixed solvent
Vapour Pressure	50 mbar @ 25°C
Initial Boiling Point:	70-90 °C
Solubility in Water:	Insoluble
Specific Gravity:	1.43±0.03
Flammability	Combustible substance
Decomposition Temperature, °C	No data available
Volatile by weight, %	10-18



[10] Stability & Reactivity

Chemical Stability:	Stable
Conditions to Avoid:	Avoid exposures to temperatures >50°C
Hazardous Polymerization:	Will not take place

[11] Toxicological Information

Acute Oral LD₅₀:	3523 to 8600 mg/kg	Species:	Rat		
Acute Dermal LD₅₀:	>43000 mg/kg.,	Species:	Rabbit		
Acute Inhalation LC₅₀:	6350-6670 ppm	Duration:	4 hr.	Species:	Rat
Skin/Eye Irritation:	Mild to moderate skin/eye irritant				
Additional Toxicity Information:	Note: LD ₅₀ /LC ₅₀ values reported above are for mixed xylene, which make up the predominant proportion of this mixture.				

[12] Ecological Information

Ecotoxicity:	<p>No data is available for this particular mixture.</p> <p>For the specific components: Xylene: LC₅₀ (goldfish) = 13-17 mg/L/96H; LC₅₀ (fathead minnow) = 42 mg/L/24 to 96H; LD₅₀(rainbow trout) = 13.5 mg/L/96H</p> <p>Chlorinated paraffins: Mussels, >60 days, 1.33 mg/L, no mortality, bio-concentration factor of 105-167 based on parent compound; rainbow trout, >60 days, NOEL, 4.2 mg/L, bio-concentration factor of 1.0-42.8 times on total material.</p> <p>No data is available for the remaining constituents of this mixture.</p>
Environmental Fate:	<p>No data is available for this particular mixture.</p> <p>For the specific components: Xylene in environmental media is subject to rapid evaporation. Hydrolysis is not significant in water under normal environmental conditions. Xylene is not expected to bioconcentrate, and is shown to readily degrade in standard biodegradation tests.</p> <p>No data is available for the remaining constituents of this mixture.</p>

[13] Disposal Considerations

Dispose in accordance with all local and governmental regulations	
Unused Product	: Dispose of through an authorized waste contractor to a licensed site.
Used / Contaminated Product	: As for unused product
Packaging	: May be steam cleaned and recycled.



[14] Transport Information

This product is NOT classified as dangerous for transport

UN Number	UN3082
Packing Group	III
Dangerous goods class	9
Subsidiary risk	30
EPG Card	9C1
Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, liquid, N.O.S.
Poisons Schedule	S6
Hazchem code	2X
Marine Pollutant	Yes

[15] Regulatory Information (Risk & Safety Phrases)

Risk Phrase	R 36/38
Safety Phrase	S23
Hazards category	Irritant, Dangerous for the Environment
Classification	3

[16] Other Health & Safety Information

Precautionary Statement:	Please note that the information contained herein is furnished without warranty of any kind. Users should consider these data as a supplement to other information gathered by and make independent judgments of suitability of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.
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Note

The information contained in this Safety Data Sheet does not constitute the users own assessment of workplace risk as required by other Health & Safety Legislation (e.g. the Health and Safety at Work Act, 1974; the control of Substances Hazardous to Health Regulations, 1988). The data given here is based on current knowledge and experience. The purpose of this data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.

END OF MSDS

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