



# MATERIAL SAFETY DATA SHEET

## PHENOLIC RESIN

### 1. Product and Company Identification

Product name	Phenolic Resin
Synonyms	epoxy phenol resin
Chemical Formula	C6H4-OC3H5O-CH2-(C6H3-OC3H5O-CH2-)n-C6H4O-C3H5O

Company Identification:	Hazel Mercantile Limited
Company Identification: (INDIA)	701/712 A, Embassy Centre, Nariman Point, Mumbai - 400 021.
For information in the INDIA, call:	+91 - 22 - 2282 4444 (50 Lines)

### 2. Composition / Information on Ingredients

Ingredient	CAS Number	Percent (by weight)
Phenolic Resin	28064-14-4	99.5% min.
Phenol	00108-95-2	0.5% max.

### 3. Hazards Identification

Emergency Overview	Light yellow liquid. High viscosity. May cause allergic skin reaction
Adverse Human Health Effects	<b>Eye:</b> Essentially non-irritating to eyes <b>Skin Contact:</b> Prolonged exposure not likely to cause significant irritating. May cause allergic skin reaction in susceptible individuals. <b>Ingestion:</b> Essentially non-irritating to cause injury.
Environmental Effects	NA
Physical and Chemical Hazards	Free phenol is hazardous
Specific Hazards	NA

### 4. First-Aid Measures

Inhalation	Remove to fresh air. Seek medical attention for any breathing difficulty.
Ingestion	If swallowed, seek medical attention.
Skin Contact	Wash off in flowing water or shower.
Eye Contact	Immediately flush eyes with plenty of water. Get medical advice if irritation develops.
Protection of First-aiders	Gloves and mask
Notes to Physician	No specific antidote. Treat symptomatically and supportively

### 5. Fire-Fighting Measures

Extinguishing Media	CO2, Foam, Dry chemical
Fire and Explosion Hazards	Flammable, Vapors may form an explosion mixture with air
Special Firefighting Procedures	Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH, and full protective gear. Vapors can travel to a source of ignition and flash back.
Special Equipment for the Protection of Firefighters	No information available



## 6. Accidental Release Measures

<b>Personal Precautions</b>	Use proper personal protective equipment as indicated section 8
<b>Environmental Precautions</b>	Store in proper area and keep the environment away from sunshine and direct heat
<b>Methods for Cleaning Up</b>	Sweep or shovel spills into appropriate container for disposal

## 7. Handling and Storage

<b>Handling</b>	Wash thoroughly after handling.
<b>Storage</b>	keep away from sunshine and direct heat

## 8. Exposure Controls / Personal Protection

<b>Engineering Measure</b>	Good ventilation
<b>Control parameters</b>	No information available <ul style="list-style-type: none"> <li>• Limit values: No information available</li> <li>• Biological Standards: No information available</li> </ul>
<b>Personal Protective Equipment</b>	helmet, mask, safety shower, eye washing fountain. <ul style="list-style-type: none"> <li>• Respiratory Protection: In case of insufficient ventilation wear suitable respiratory equipment.</li> <li>• Hand Protection: Gloves</li> <li>• Eye Protection: Safety glass</li> <li>• Skin and Body Protection: Wear protective gloves and clean body-covering clothing.</li> </ul>
<b>Specific Hygiene Measures</b>	No information available

## 9. Physical and Chemical Properties

Physical State	High viscosity liquid
Color	Light yellow
pH	NA
Decomposition Temperature	No information available, by estimation is around 600
Auto Ignition Temperature	NA
Vapor pressure	NA
Density	1.2
Form	Clear liquid
Odor	Very light phenol smell but not obvious
Boiling Point/Boiling Range	NA
Flash Point & Method Used	218 deg cel
Explosion Properties	No information available
Vapor density	NA.
Solubility	water dissolvent 1 % @ 25 °C Literature



## 10. Stability and Reactivity

<b>Stability</b>	Stable under ordinary conditions of use and storage.
<b>Possible Hazardous Reactions Occurring under Specific Conditions</b>	Hazardous polymerization will not occur.
<b>Conditions to Avoid</b>	Keep away from ignition, heat & high temperature.
<b>Materials to Avoid</b>	It is explosive with potassium hydroxide, sodium hydroxide, and sodium tetrahydroaluminate since caustic alkalis deplete the inhibitor. Reacts with potassium dioxide 2-aminophenol to form an explosive product. Reacts violently with metal halides. Forms explosive hydrogen gas with borane or lithium tetrahydroaluminate and reacts vigorously with bromine and calcium hydride. Incompatible with sulfinyl chloride and oxidizing materials.
<b>Hazardous Decomposition Products</b>	(>380 °C), Complete combustion will emit carbon dioxide and water when heated to decomposition. Incomplete combustion gives in addition carbon monoxide and oxidation products, including phenols, aldehydes and oligomer phenols.

## 11. Toxicological Information

<b>Acute toxicity</b>	Oral rat LD50: > 316ppm (phenol)
<b>Local effects</b>	No information available
<b>Sensitization</b>	NA
<b>Chronic Toxicity or Long Term Toxicity</b>	NA
<b>Specific effects</b>	NA

## 12. Ecological Information

<b>Possible Environmental Effects, Behavior and Fate</b>	NA
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## 13. Disposal Considerations

<b>Recommended Methods for Safe and Environmentally Preferred Disposal</b>	Dispose in safe manner in accordance with local and national regulation and laws.
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## 14. Transport Information

<b>International regulations</b>	ND
<b>UN classification number</b>	3082
<b>Specific Precautionary Transport Measures and Conditions</b>	Not dangerous goods.

## 15. Regulatory Information

### Applicable Regulations:

*(Not meant to be all-inclusive-selected regulations represented)*

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

### Osha hazard communication standard

This product is a "hazardous chemical" as defined by the osha hazard communication standard, 29cfr 1910.1200.superfund amendments and reauthorization act of 1986 title iii (emergency planning and community right-to-know Act of 1986) Sections 311 and 312



Immediate (Acute) Health Hazard :	Yes
Delayed (Chronic) Health Hazard :	No
Fire Hazard :	No
Reactive Hazard :	No
Sudden Release of Pressure Hazard :	No

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313 Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List: Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Special Hazardous Substances List: (To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.) California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute. US. Toxic Substances Control Act All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

CEPA - Domestic Substances List (DSL) All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed. Phenol is specified to be Group I Materials of the Japanese PRTR. European Inventory of Existing Commercial Chemical Substances (EINECS) The components of this product are on the EINECS inventory or are exempt from inventory requirements.

European/International Regulations: European labeling in accordance with EC Directives Risk Phases: R43 May cause sensitization by skin contact. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Phrases :** S28 After contact with skin, wash immediately with plenty of soap and water.  
S37 Wear suitable gloves.S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

## 16. Other Information

<b>MSDS Creation Date:</b>	October 15, 2007
<b>Revision #0 Date</b>	

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.*