

ZEON CORPORATION

ZPN2464-27

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Material Safety Data Sheet

May. 13. 2004.

1. Product and Company Identification :

- **Product name :** ZPN2464-27 Resist
- **Manufacturer :**
ZEON CORPORATION
2-6-1, Marunouchi, Chiyoda-ku, Tokyo, 100-8323 JAPAN
- **Emergency Telephone / Fax Number :**
+ 81-3-3216-0590 / 1827

2. Composition / Information on Ingredients :

- **Chemical formula :**
 $\text{CH}_3\text{OCH}_2\text{CH}(\text{OCOCH}_3)\text{CH}_3$
 $-(\text{C}_6\text{H}_m\text{OH}(\text{CH}_3)_{4-m}\text{CH}_2)_n-$
- **Hazardous components :**

Component	Present by wt.	CAS Number
Propyleneglycolmonomethyletheracetate	80 - 55%	108 65 6
Phenol Resin	20 - 45%	24979-70-2

3. Hazards identification

- **Hazard description :** Flammable. Irritating to eyes, skin and respiratory system.
- **Classification system :** The classification was made from the hazardous components MSDS s.

4. First aid measures

- **Inhalation :** Supply fresh air; consult doctor in case of complaint.
- **Skin contact :** Wash skin with soap and copious amounts of water, remove contaminated clothing, get medical attention if irritation persists.
- **Eye contact :** Rinse opened eye for several minutes under running water. Consult a doctor.
- **Ingestion :** Give large amounts of water. Consult a doctor immediately.

5. Fire fighting measures

- **Suitable extinguishing agents :** CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment :** Wear goggles, rubber gloves and boots, self contained breathing apparatus, and protective clothing.

6. Accidental release measures

- **Personal precautions :** Wear goggles, rubber boots and gloves, and protective clothing.
- **Environmental precautions :** Do not allow substance to enter sewage system, surface or ground water.
- **Methods for cleaning up :** Contain the spill by diking/absorbing with liquid-binding material (sand, diatomite, universal binders). Ensure adequate ventilation.

7. Handling and storage

Handling

- **Information for safe handling :**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires :**
Avoid contact with oxidizing agent and flame.

Storage

- Store between - 10 and 25 .
- Keep bottles tightly sealed.
- Store away from strong caustics, flame, sunlight and UV light.

8. Exposure controls and personal protection

- **Engineering controls :**
No further data ; see section 7.
- **Exposure limits :** None established
- **General protective and hygienic measures :**
Keep away from foodstuffs and beverages.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment :**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independant of circulating air.
- **Protection of hands :** Organic solvent resistant gloves.
- **Eye protection :** Tightly sealed goggles.
- **Body protection :** Protective work clothing.

9. Physical and chemical properties

- Physical state : Viscous liquid
- Color : Dark red
- Odor : Characteristic perfume
- Boiling point : 146
- Flash point : 47
- Danger of explosion : Product does not present a self explosion hazard.
- Flammable limits : NA
- Vapor pressure : 3.5mmHg(20)
- Vapor density (Air=1) : 4.6
- Density at 20 : 1.06
- Solubility in water : Form two layers (20%)
- Freezing point : -55

10. Stability and reactivity

- Thermal decomposition aboided : No decomposition
- Dangerous reactions : No dangerous reactions known. Avoid contact with bases, acid and oxidizing agents.
- Dangerous products of decomposition : No dagerous decomposition products known.
- Hazardous products of combustion : Carbon dioxide, carbon monoxide and nitrogen oxide
- Hazardous polymerization : Not occur.
- Avoid boiling of product

11. Toxicological information

- Acute toxicity : Unkown
- Primary irritant effect on the skin and eyes : Irritant
- Sensitization : No sensitizing effects known.
- LD₅₀ : 8500mg/kg(oral rat)

12. Ecological information

- General notes : Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

13. Disposal considerations

- Do not allow product to reach sewage system. Dispose of product (including packagings) in accordance with applicable regulations.

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14. Transportation information

Maritime (IMDG), Air (ICAO)

- Class : 3 (Flammable liquid)
- UN Number : 1993
- Proper Shipping Name : Flammable liquid
- Packing Group :

15. Regulations

- CERCLA Hazardous Substances (with reportable quantity) :
None
- Extremely Hazardous substances : None
- TSCA Inventory : All ingredients on TSCA inventory.
- Safety phrases :

Do not breathe fumes and vapor.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing.

In case of accident seek medical advice immediately.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.