

# Safety Data Sheet

### 1. Identification of the substance / preparation and the Company

#### 1.1 Identification of the substance or preparation

Code: RESINA THUMAL 20  
Product name: RESINA THUMAL 20

#### 1.2 Use of the substance / preparation

#### 1.3 Company identification

Name: Tenax Spa  
Full address: via I Maggio 226  
District and Country: 37020 Volargne (VR) Italy  
Tel.: 045/6860222  
Fax: 045/6862456

#### 1.4 Emergency telephone

For urgent inquiries refer to: tenax@tenax.it  
<http://www.tenax.it>

### 2. Composition / Information on ingredients

#### Contains:

| Name                           | Concentration C  | Classification |
|--------------------------------|------------------|----------------|
| o-cresil glycidil ether        | 20 <= C < 21,5   | Xi R 38        |
| Cas No 2210-79-9               |                  | Xi R 43        |
| CE No 218-645-3                |                  | N R 51/53      |
| Index No 603-056-00-X          |                  |                |
| REACTION PRODUCT: BISPHENOL A- | 57,5 <= C < 61,5 | Xi R 36/38     |
| (EPICHLORHYDRIN)               |                  | Xi R 43        |
| Cas No 25068-38-6              |                  | N R 51/53      |
| CE No 500-033-5                |                  |                |
| Index No 603-074-00-8          |                  |                |
| 1,6 ESANDIOL DIGLIGIDIL ETERE  | 20 <= C < 21,5   | R 52/53        |
| Cas No 16096-31-4              |                  | Xi R 36/38     |
|                                |                  | Xi R 43        |

The complete text of -R- phrases is specified in section 16.

### 3. Hazards Identification

#### 3.1 Substance/Preparation Classification

This preparate is dangerous under 67/548/EEC and 1999/45/EC regulations and subsequent amendments. Therefore, this preparate requires a safety data sheet according to the 91/155/EC regulation and subsequent amendments. Further information on health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

# Tenax Spa

## RESINA THUMAL 20

Revision nr. 2  
Dated 04/07/05  
Printed on 06/07/05  
Page n. 2 / 5

Danger Symbols: Xi-N  
Phrases R: 36/38-43-51/53

### 3.2 Danger Identification

IRRITATING TO EYES AND SKIN.  
MAY CAUSE SENSITIZATION BY SKIN CONTACT.  
TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.  
This product contains epoxy resins. Producer's specifications are as follows:  
Because of epoxy-product properties and according to the toxicological data available for similar products, this preparation may sensitize and irritate the skin and the respiratory system.  
It contains epoxy components at low molecular weights, which may irritate eyes, mucosas and skin. Frequent contact with skin may cause irritation and sensitization phenomena. Sensitization reactions may also be caused by other epoxy components (cross-sensitization).  
Avoid contact with skin and exposure to vapours and aerosols.

### 4. First aid measures

EYES: Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.  
SKIN: Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.  
INHALATION: Remove to open air. If breathing is irregular, seek medical advice.  
INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

### 5. Fire-fighting measures

Allow containers to cool in order to avoid product decomposition and generation of substances which might injure the health and be dangerous for safety reasons. Wear the fire equipment all the time.

### 6. Accidental release measures

Extinguish the sources of ignition or heat; cover the spillage with inert absorbent material. Collect as far as possible the resulting mass and discard the remainder by spraying water.  
For information on environmental and health risks, protection of the respiratory airways, ventilation and individual protective measures refer to the other sections of this sheet.

### 7. Handling and storage

Store in a well ventilated place, keeping the containers closed when not used. Do not smoke while handling. Keep far away from sources of heat, naked flames and sparks and other sources of ignition.

### 8. Exposure control / personal protection.

In order to minimize exposure as far as possible, it is strongly recommended to use adequate individual protective measures, such as: masks suitable for the product, goggles, gloves and overall. Do not eat, drink or smoke while handling it. Accurately wash the hands with soap and water before meals and at the end of the work shift.

### 9. Physical and chemical properties

|            |                      |
|------------|----------------------|
| Colour     | WATERLOOK            |
| Odour      | TYPICAL              |
| Appearance | LIQUID               |
| Solubility | NOT SOLUBLE IN WATER |

# Tenax Spa

## RESINA THUMAL 20

Revision nr. 2  
Dated 04/07/05  
Printed on 06/07/05  
Page n. 3 / 5

|  |          |
|--|----------|
| Viscosity                              | 1000 CPS |
| Vapour density                         | N.A.     |
| Evaporation speed                      | N.A.     |
| Comburent properties                   | N.A.     |
| Partition coefficient: n-octanol/water | N.A.     |
| pH                                     | N.A.     |
| Boiling point                          | N.A.     |
| Flash point                            | 150 °C   |
| Explosive properties                   | N.A.     |
| Vapour pressure                        | N.A.     |
| Specific gravity                       | 1,1 Kg/l |
| Solid content:                         | 100,00 % |

### 10. Stability and reactivity

The product is stable in normal conditions of use and storage. When heated or in the event of a fire, carbonoxides may be released and vapours which are dangerous to health. The vapours may also form explosive mixtures with the air.

### 11. Toxicological information

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation. Contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Vapour inhalation may slightly irritate the upper respiratory tract. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurves, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

### 12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it may even have negative effects on the aquatic environment.

### 13. Disposal consideration

Consider the possibility of burning the product in a suitable incenerator. Acid or basic products must always be neutralized before undergoing any treatment, including biological treatment whenever feasible. If the waste is solid, it can be disposed of in a landfill.

### 14. Transport information

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

#### Road and rail transport:

|                       |   |          |
|-----------------------|---|----------|
| ADR:                  | 9   | UN: 3082 |
| Packing Group:        | III   |          |
| Label:                | 9   |          |
| Nr. Kemler:           | 90  |          |
| Proper Shipping Name: | Environmentally hazardous substance, liquid, n.o.s. (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN); o-cresil glycidil ether) |          |

# Tenax Spa

## RESINA THUMAL 20

Revision nr. 2  
Dated 04/07/05  
Printed on 06/07/05  
Page n. 4 / 5

### Carriage by sea (shipping):

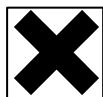
IMO class: 9 UN: 3082  
Packing Group: III  
Label: 9  
EMS: F-A, S-F  
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN); o-cresil glycidil ether)

### Transport by air:

IATA: 9 UN: 3082  
Packing Group: III  
Label: 9  
**Cargo:**  
Packaging instructions: 914 Maximum quantity: No lim  
**Pass.:**  
Packaging instructions: 914 Maximum quantity: No lim  
Special Instructions: A97

## 15. Regulatory information

Xi



IRRITANT

N



DANGEROUS FOR THE ENVIRONMENT

- R36/38 IRRITATING TO EYES AND SKIN.
- R43 MAY CAUSE SENSITIZATION BY SKIN CONTACT.
- R51/53 TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
- S24/25 AVOID CONTACT WITH SKIN AND EYES.
- S29 DO NOT EMPTY INTO DRAINS.
- S37 WEAR SUITABLE GLOVES.
- S61 AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEETS.

Contains epoxy constituents. See information supplied by the manufacturer.

Contains:  
o-cresil glycidil ether  
REACTION PRODUCT: BISPHENOL A- (EPICHLORHYDRIN)  
1,6 ESANDIOL DIGLIGIDIL ETERE

Danger labelling under regulations 67/548/EEC and 1999/45/EC and following amendments and adjustments.

Workers exposed to this chemical agent must undergo health checks according to regulation 98/24/EC.

## 16. Other information

Text of -R- phrases quoted in section 2 of the sheet.

R 36/38 IRRITATING TO EYES AND SKIN.  
R 38 IRRITATING TO SKIN.  
R 43 MAY CAUSE SENSITIZATION BY SKIN CONTACT.  
R 51/53 TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC

# Tenax Spa

## RESINA THUMAL 20

Revision nr. 2  
Dated 04/07/05  
Printed on 06/07/05  
Page n. 5 / 5

R 52/53 ENVIRONMENT.  
HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE  
AQUATIC ENVIRONMENT.

### GENERAL BIBLIOGRAPHY

1. Regulation 1999/45/CE and following amendments;
2. Regulation 67/548/CEE and following amendments and adjustments (technical adjustment XXIX);
3. Regulation 91/155/CEE and following amendments;
4. The Merck Index. - 10th Edition;
5. Handling Chemical Safety;
6. Niosh - Registry of Toxic Effects of Chemical Substances;
7. INRS - Fiche Toxicologique (toxicological sheet);
8. Patty - Industrial Hygiene and Toxicology;
9. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition;

### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

### Changes to previous review

The following sections were modified:

01 / 02 / 03 / 09 / 11 / 15