



## SAFETY DATA SHEET

July 2011

FDS 1107

### 1. Name of substance / preparation and company

#### Product information

Item name : RESIN for solder mask

Ref : U70001 RESIN

#### Company : CIF

11 rue Charles Michels

92220 BAGNEUX

Tél : 01.45.47.48.00 – Fax : 01.45.47.16.14

E-mail : [cif@cif.fr](mailto:cif@cif.fr) – Web : [www.cif.fr](http://www.cif.fr)

### 2. Hazards identification

#### - Hazard designation:



Xi Irritant

#### - Information pertaining to particular dangers for man and environment

R 36/38 Irritating to eyes and skin.

#### - Classification system

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies

### 3. Composition information on ingredients

#### - Chemical characterization

- **Description:** Mixture of the substances listed below with harmless additions.

#### - Dangerous components:

CAS: 112-15-2	Epoxy Acrylic Resin	30-55%
EINECS: 203-940-1	2-(2-ethoxyethoxy)ethyl acetate	10-15%
CAS: 34590-94-8	(2-methoxymethylethoxy)propanol	2.5-10%
EINECS: 252-104-2		
CAS: 64742-94-5		
EINECS: 265-198-5	Solvent naphtha (petroleum), heavy arom.	Xn; R 65 1-5%
	Filler	20-25%

### 4. First-aid measures

- **After inhalation** Supply fresh air and call for doctor for safety reasons.

#### - After skin contact

Instantly wash with water and soap and rinse thoroughly.

Seek medical treatment.

- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

#### - After swallowing

Call a doctor immediately.

Rinse mouth with water

- **Information for doctor** Treat symptomatically.

### 5. Fire-fighting measures

#### - Suitable extinguishing agents

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- **For safety reasons unsuitable extinguishing agents** Water.

#### - Special hazards caused by the material, its products of combustion or resulting gases:

Formation of toxic gases is possible during heating or in case of fire.

- **Protective equipment:** Put on breathing apparatus.

## 6. Accidental release measures

**Person-related safety precautions:** Wear protective clothing.

### - Measures for environmental protection:

Do not allow product to reach sewage system or water bodies.

### - Measures for cleaning/collecting:

Ensure adequate ventilation.

Transfer into suitable containers for recovery or disposal.

## 7. Handling and storage

### - Handling

#### - Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with eyes, skin and clothes

Pay attention to ventilation: this vapor is heavier than air, and easily stays at low position.

#### - Information about protection against explosions and fires:

Protect from heat.

Keep breathing equipment ready.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

### - Storage

#### - Requirements to be met by storerooms and containers:

Store only in the original container.

Store in cool location.

Open only under gold fluorescent or equivalent yellow safelight

#### - Information about storage in one common storage facility:

Store away from oxidizing agents.

Store away from reducing agents.

#### - Further information about storage conditions:

Keep container tightly sealed.

Store in the dark.

## 8. Exposure controls/Personal protection

### Additional information about design of technical systems:

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation, and control of process conditions.

#### - Components with limit values that require monitoring at the workplace:

##### 34590-94-8 (2-methoxymethylethoxy)propanol

OEL Short-term value: 909 mg/m<sup>3</sup>, 150 ml/m<sup>3</sup>

Long-term value: 606 mg/m<sup>3</sup>, 100 ml/m<sup>3</sup>

- **Additional information:** The lists that were valid during the compilation were used as basis.

#### - Personal protective equipment

##### - General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

##### - Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

- **Protection of hands:** Protective gloves.

##### - Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

##### - Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Tightly sealed safety glasses.

## 9. Physical and chemical properties

### - General Information

<b>Form:</b>	Viscous
<b>Colour:</b>	Different according to colour
<b>Odour:</b>	Characteristic
<b>- Change in condition</b>	
<b>Melting point/Melting range:</b>	<0°C
<b>Boiling point/Boiling range:</b>	Not determined
<b>- Flash point:</b>	67°C
<b>- Self-inflammability:</b>	Product is not selfigniting.
<b>- Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
<b>- Density at 20°C</b>	N.D. g/cm3
<b>- Solubility in / Miscibility with</b>	
<b>Water:</b>	Unsoluble
<b>- Solvent content:</b>	
<b>Water:</b>	0.0 %
<b>- Solids content:</b>	x %

## 10. Stability and reactivity

### - Thermal decomposition / conditions to be avoided:

Heating may produce toxic exhalations.

Avoid high temperature

Exposure to direct sunlight

Use under W (Tungsten) or yellow light

### - Materials to be avoided:

Oxidising agents

Reducing agents

### - Dangerous reactions

No dangerous reactions known

May polymerise if exposed to heat, direct sunlight

### - Dangerous products of decomposition:

Combustion may cause irritating fumes.

Carbon monoxide

## 11. Toxicological information

### - Acute toxicity:

### - LD/LC50 values that are relevant for classification:

#### 112-15-2 2-(2-ethoxyethoxy)ethyl acetate

Oral LD50 4400 mg/kg (rab)

11000 mg/kg (rat)

Dermal LD50 15000 mg/kg (rab)

#### 34590-94-8 (2-methoxymethylethoxy)propanol

Oral LD50 5135 mg/kg (rat)

Dermal LD50 9500 mg/kg (rat)

#### 64742-94-5 Solvent naphtha (petroleum), heavy arom.

Oral LD50 5000 mg/kg (rat)

### - Primary irritant effect:

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritant effect.

- **Sensitization:** Sensitization possible by skin contact.

### - Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant

## 12. Ecological information

### - Information about elimination (persistence and degradability):

- **Other information:** The product is expected to be partially or slowly biodegradable.

### - Behaviour in environmental systems:

- **Mobility and bioaccumulation potential:** Product is not expected to bioaccumulate.

- **General notes:** The product may be toxic to aquatic organism

## 13 Disposal consideration

### Product:

#### - Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

#### - Uncleaned packagings:

- **Recommendation:** Disposal must be made according to official regulations.

#### 14. Transport information

- Land transport ADR/RID (cross-border)
- ADR/RID-GGVS/E Class: -
- Maritime transport IMDG:
- IMDG Class: -
- Marine pollutant: No
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: -

#### 15. Regulatory information

##### - Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

##### - Code letter and hazard designation of product:



Xi Irritant

- Risk phrases: 36/38 Irritating to eyes and skin.
- Safety phrases:
  - 23 Do not breathe fumes
  - 24/25 Avoid contact with skin and eyes.

#### 16. Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

##### - Relevant R-phrases

65 Harmful: may cause lung damage if swallowed.

- Department issuing data specification sheet: Environment protection department.