

## Material Safety Data Sheet 91 / 155 / CEE

**1- Product and company identification**

Trade name: **SD 2613**  
**Curing agent for epoxy resin**

**Manufacturer / Supplier:**

**SICOMIN Composites**  
**RN 568 Quartier la Moutte BP 23**  
**13 161 Châteauneuf-les-Martigues Cédex -France-**  
**Phone: 33(0)4.42.42.30.20 Fax: 33.(0)4.42.81.29.29 composites@sicomin.com**

**2- Composition / Information on ingredients**

**Chemical characterization:** Polyamines blend

<b>CAS Number</b>	<b>Chemical Name</b>	<b>%</b>	<b>Symbol</b>	<b>Risk Classification</b>
39423-51-3	Alkylether polyamin	< 30	C	21/22 34
111-40-0	Diethylene triamine (DETA)	< 20	C	21/22 34 43
112-24-3	Triethylene tetramine (TETA)	< 20	C	21 34 43
100-51-6	Benzyl Alcohol	< 20	Xn	20/22

**3- Hazards Identification**

C: Corrosive

- R 21/22 Harmful by skin contact and if swallowed  
 R 34: Causes burns  
 R 43: May cause sensitization by skin contact

**Signs and symptoms of exposure (Possible longer term effects):**

Repeated and/or prolonged exposures may result in : adverse respiratory effects (such as cough, tightness of chest or shortness of breath); adverse skin effects (such as defatting, rash, irritation or corrosion); adverse eye effects (such as conjunctivitis or corneal damage).

**4- First aid measures****Signs and symptoms of exposure (acute effects)****Eye contact:**

Rinse immediately with plenty of water for at least 15'. Get medical attention.

**Skin contact:**

Immediately remove contaminated clothing. Remove the excess and wash with water and soap. Get medical attention.

**Ingestion:**

Do not induce vomiting. Consult immediately a physician

**Inhalation:**

Remove from the contaminated area and keep warm and at rest.

**5- Fire fighting measures****Suitable extinguishing agents:**

Powder CO<sub>2</sub>, foam. Cool the containers with water spray

**Products to avoid:**

ND

**Products of combustion will include:**

Poison gas as nitrogen gas (NO<sub>x</sub>), carbon monoxide (CO)

**Protective equipment:**

Use breathing apparatus

## 6- Accidental release measures

### Individual precautions:

Use gloves, goggles, masks and protective clothing  
Use breathing equipment if the area is narrow, keep fire sources away

### Environmental precautions:

Keep the product away from superficial and underground water. In the event of product entering waters or drainage system or pollution soil or plants, informing fire service or police.

### Cleaning procedures:

Soak up inert material in accordance with law regulations. Wash with water & detergents.

## 7- Handling and storing

### Handling:

Use personal protection (see point 8). Provide adequate ventilation. Avoid inhalation vapours.

### Storing:

Store in well ventilated area, in close containers.  
The product is sensitive to CO<sub>2</sub> and humidity.

## 8- Exposure controls / personal protection

### Precautionary measures:

Provide adequate ventilation

### Respiratory protection:

Necessary in case the area is not well ventilated: mask with adequate filters

### Hand protection:

Use appropriate gloves

### Eyes protection:

Wear goggles or a face visor

### Skin protection:

Use protective clothing, exercising reasonable personal cleanliness

## 9- Chemical / Physical properties

Appearance	: Liquid
Colour	: Yellow
Odour	: Ammoniacal
Ph	: Alkaline
Boiling point	: > 100 °C
Flash point	: > 100°C
Solubility in water	: Partially soluble
Solubility in organic solvents	: Alcohols and aromatic hydrocarbons
Specific gravity (Kg / l 20°C)	: 1.0 to 1.1
Viscosity (mPa.s 25°C)	: 100 to 160
Pression de vapeur (mm Hg à 25°C)	: ND

## 10- Stability and reactivity data

Precautions: ND

### Materials to avoid:

Acids, strong oxidizers, epoxides, ketones

### Hazardous decomposition products:

In case of fire, the product may develop toxic gas as nitrous gas (NO<sub>x</sub>), carbon monoxide (CO), etc..

**11- Toxicological information**

Consider the concentration of each substance to evaluate toxicological effects caused by exposure

<b>Cas number</b>	<b>Inhalation LD 50 (rat) mg / l / 4h</b>	<b>Ingestion LD 50 (rat) mg/kg</b>	<b>Skin contact LD 50 (rabbit) mg/kg</b>	<b>Long term effect Skin cobaye</b>
39423-51-3	nd	220	614	no sensitization
111-40-0	1.8	2000	nd	irritant
112-24-3	nd	nd	nd	irritant
100-51-6	4178	1610	nd	no irritation

**Ingestion:**

Corrosive. May cause burns of mouth and severe gastrointestinal trouble.

**Skin absorption:**

Prolonged or widespread exposure may result in the absorption of potentially harmful amounts of material.

May cause chemical burns and develop skin allergy.

**Inhalation:**

Vapours are irritating and may develop allergy.

**Eye contact:**

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.

**12- Ecological Information****General notes:**

Do not empty into drains

**13- Disposal considerations**

Dispose of in accordance with local and national regulations

**14- Transport Information**

**Correct technical name:** Liquid polyamines, corrosives, nos  
**Content:** Polyalkylamines, Diethylene diamine, Triethylene tetramine  
**ONU N°:** 2735

**Air transport - OACI / IATA** Class 8 Group: III FP : 100°C  
 49 CFR 171.11

**Sea transport - IMDG** Class 8 Group: III IMDG page: 8109.2  
 N° EMS: 8-05 MFAG: 320

**Road transport - ADR / RID** Class 8, 53(b) HI/Kemler n°: 80

**15- Regulatory information****Label EEC:**

Regulation 88 / 379

**Hazard symbol:**

C Corrosive

**Risk Phrases :**

R 21/22 Harmful by skin contact and if swallowed  
 R 34: Causes burns  
 R 43: May cause sensitization by skin contact

**Safety Phrases:**

- S 26: In case of contact with eye, rinse immediatly with plenty of water and seek medical advice
- S 36/37/39: Wear suitable protective clothing, gloves, and eye face protection
- S 38: In case the area is not well ventilated: mask with adequate filters
- S 46 In case of accident or if you feel unwell, seek medical advice
- S 61 Avoid release to the environment. Refer to special instructions / safety data sheets

**16-Other information**

Note:

The information herein is given in good faith and to the best of our knowledge but no warranty, express or implied, is made. Since the use of this information and the conditions of use of the product are not within our control, it is the user's obligation to determine the condition of safe use of the products.

NA: Not applicable      ND: Not determined

**Department issuing data specification sheet / Contact:**

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