

Material Safety Data Sheet 93 / 112 / CEE

**1- Product and company identification**

Trade name: **SD 6131/4871 50/50**  
**Curing agent for epoxy resin**

**Manufacturer / Supplier:**

**SICOMIN Composites**  
RN 568 Quartier la Moutte BP 23  
13 161 Châteauneuf-les-Martigues Cedex -France-  
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**2- Composition / Information on ingredients**

**Chemical characterization:** Polyamines blend

<b>Chemical Name</b>	<b>Cas Number</b>	<b>%</b>	<b>Symbol</b>	<b>Risk Classification</b>
Alkyl ether polyamines (1)	39423-51-3	< 50	C	21/22 34
Isophorone diamine (IPD)	2855-13-2	< 50	C	34 21/22 43

(1): Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-(2-aminomethylethoxy)- ether react with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol

**3- Hazards Identification**



T: Toxic

- R 45: Contain material wich may cause cancer  
R 48/20/21/22: Harmful by eye contact, skin contact and if swallowed. May cause allergic skin reaction.  
R 37: Irritating to respiratory system.  
R 43: May cause sensitization by skin contact  
R 48: Danger of serious damage to health by prolonged exposure

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

Contains material wich may cause liver, kidney, blood and spleen damage (based on animal data)  
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:**

Immediatly 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 (NOx), 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:**

2 years, if stored in well ventilated area, in close containers,  $18 < T_a < 25 \text{ }^\circ\text{C}$   
The product is sensitive to  $\text{CO}_2$  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**

<b>Appearance</b>	: Liquid
<b>Colour</b>	: Yellow to red
<b>Odour</b>	: Amoniacal / Amines
<b>Ph</b>	: Alcaline >11
<b>Boiling point</b>	: > 100 °C
<b>Flash point</b>	: > 100°C
<b>Solubility in water</b>	: Partially soluble
<b>Solubility in organic solvents</b>	: Alcohols and aromatic hydrocarbons
<b>Specific gravity (Kg / l 20°C)</b>	: 0.99 ± 0.01
<b>Viscosity (mPa.s 25°C)</b>	: 70 ± 20
<b>Vapour pressure (mbar 20°C)</b>	: 0.02

**10- Stability and reactivity data**

**Precautions:** ND

**Materials to avoid:**

Acids, strong oxidizers, epoxidies, ketones

**Hazardous decomposition products:**

In case of fire, the product may develop toxic gas as nitrous gas ( $\text{NO}_x$ ), carbon monoxide ( $\text{CO}$ ), 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>
2855-13-2	nd	1030	nd	sensitization
39423-51-3	nd	220	562	no sensitization

Contains material wich may cause liver, kidney, blood and spleen damage (based on animal data)

**Ingestion:**

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

**Skin absorption:**

Prolonged of 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 wich 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:** O-Toluenediamine, Methylenedianiline, Isophorone diamine, Méthylène

**ONU N°:** 2810

**Air transport - OACI / IATA** Class 6.1 Group: II FP : > 100°C

**Sea transport - IMDG** Class 6.1 Group: II IMDG page: 6270.2

**Road transport - ADR / RID** Class 6.1 Classe: 12c)

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

Regulation 88 / 379

**Hazard symbol:**

T Toxic

**Risk Phrases :**

R 45: Contain material wich may cause cancer

R 48/20/21/22: Harmful by eye contact, skin contact and if swallowed. May cause allergic skin reaction.

R 37: Irritating to respiratory system.

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 28: After contact with skin, wash immediatly with plenty of soap and water.
- S 38: In case of insufficient ventlation, wear suitable respiratory equipment.

**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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