

Material Safety Data Sheet 91 / 155 / CEE

**1- Product and company identification**

Trade name: **SD 1229.3**  
**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

<b>CAS Number</b>	<b>Chemical Name</b>	<b>%</b>	<b>Symbol</b>	<b>Risk Classification</b>
1761-71-3	Methylene dicyclohexylamine 4,4'	60 - 80	C, N	22 35 37 43 51 53

**3- Hazards Identification**



C: Corrosive



N: Dangerous for the environment

R 22 Harmful if swallowed  
R 35: Causes severe burns  
R 37: Irritating to respiratory system  
R 43: May cause sensitization by skin contact  
R 51: Toxic to aquatic organism  
R 53: May cause long term adverse effects in the aquatic environment

**Emergency overview:**

Corrosive  
Keep away from heat and sources of ignition  
Severe skin irritant  
May cause sensitization by skin contact and eczemas  
Harmful if swallowed, repeated or prolonged contact causes asthma  
Moderate respiratory irritant

**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.

**Chronic health hazard**

This product contains no listed carcinogens according to directives 67/548/EEC, IARC, ACGIH or NTP in concentrations of 0.1 percent or greater.

### 5- Fire fighting measures

#### Suitable extinguishing agents:

Powder CO<sub>2</sub>, alcohol resistant foam, dry chemical, dry sand, limestone powder  
Cool the containers with water spray

**Products to avoid:** Halons

**Products of combustion will include:** Toxic gas as nitrogen gas (NO<sub>x</sub>), carbon monoxide (CO)

**Protective equipment:** Use breathing apparatus

**Further information:** Do not allow run off from fire fighting to enter drains or water courses

### 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.  
Avoid contact with skin and eyes  
When using, do not eat, drink or smoke

#### Storing:

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

### 8- Exposure controls / personal protection

**Precautionary measures:** Provide adequate ventilation, accessible eye wash stations and safety showers

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

**Hand protection:** Use appropriate gloves, neoprene or impervious chemical resistant

**Eyes protection:** Wear goggles or a face visor

**Skin protection:** Use impervious protective clothing, long sleeve shirts and trousers without cuffs

Exercising reasonable personal cleanliness

**Special instructions:** Discard contaminated leather articles

### 9- Chemical / Physical properties

Appearance	: Liquid
Colour	: Yellow
Odour	: Ammoniacal
Ph	: 12, 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)	: + 0.02
Viscosity (mPa.s 25°C)	: 130 + 30
Pression de vapeur (mm Hg à 25°C)	: < 0.1 mm Hg / 38°C

### 10- Stability and reactivity data

**Stability:** Stable under normal conditions

#### Materials to avoid:

Acids, strong oxidizers, epoxides, ketones

#### Hazardous decomposition products:

In case of fire, the product may develop toxic gas as nitrogen oxide, ammonia, carbon monoxide

### 11- Toxicological information

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

Cas number	Inhalation LC 50 (rat)	Ingestion LD 50 (rat) mg/kg	Skin contact LD 50 (rabbit) mg/kg	Long term effect Skin cobaye
1761-71-3	nd	625	2110	sensitization

**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.

**Chronic health hazard:** no mutagenic in Ames test

### 12- Ecological Information

**General notes:** Do not empty into drains  
**Biodegradability:** Not inherently biodegradable  
**Mobility:** No data  
**Bioaccumulation:** No data

#### Aquatic toxicity

LC 50 96 h Golden orfe 46-100 mg/l	EC 50 48 h Daphnia magna 6.84 mg/l	EC 50 72 h Algae 140-200 mg/l
---	---	--

### 13- Disposal considerations

Dispose of in accordance with local and national regulations

### 14- Transport Information

**Correct technical name:** Amines, Liquid, Corrosive, nos  
**Content:** Methylcyclohexylamine 4,4'  
**UN/ID N°:** UN2735

**IATA** Class 8 Group: II

**IMDG** Class 8 Group: II

**ADR** Class 8 Packing group: II ADR/RID Hazard ID n°: 80

**RID:** Class 8 Packing group: II

### 15- Regulatory information

**Label EEC / Hazard symbol:** C Corrosive N Dangerous for the environment

#### Risk Phrases :

R 22 Harmful if swallowed  
 R 35: Causes severe burns  
 R 37: Irritating to respiratory system  
 R 43: May cause sensitization by skin contact  
 R 51: Toxic to aquatic organism  
 R 53: May cause long term adverse effects in the aquatic environment

**Safety Phrases:**

- S 26: In case of contact with eye, rinse immediately 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

**Components:**

**Included on inventory:**

TSCA / USA, , DSL/Canada, SEPA / China, AICS / Australia, ENCS / Japan  
EINECS / EU: included on monomers or no longer polymer

**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.

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

SICOMIN Composites / Laboratory R&D: Tel: 33.(0)4.42.42.30.20 Fax: 33.(0)4.42.81.29.29