

## SAFETY DATA SHEET

### 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### Identification of the substance or preparation:

Name: SD 2613.  
Product code: 302.  
Hardener for epoxy resin

#### Company/undertaking identification:

Registered company name: SICOMIN Composites.  
Address: RN 568 - BP 23.13161.Châteauneuf les Martigues.France.  
Telephone: +33 (0)4 42 42 30 20. Fax:+33 (0)4 42 81 29 29. Telex:.  
E- mail: composites@sicom.in.com  
http://www.sicom.in.com

#### Emergency telephone: .

Association/Organisation:ORFILA tél: +33(0)1.45.42.59.59.

### 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Full text of risk phrases appearing in section 2: see section 16.

#### Hazardous substances present on their own:

(present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)

INDEX	CAS	EC	Name	Symb.	R:	%
	694-83-7	211-776-7	1,2-DIAMINOCYCLOHEXANE	C	42/43 34	0 <= x % < 2.5
612-058-00-X	111-40-0	203-865-4	DIETHYLENETRIAMINE	C	21/22 34 43	10 <= x % < 25
612-059-00-5	112-24-3	203-950-6	3,6-DIAZAOCTANETHYLENEDIAMIN	C	34 43 52/53 21	10 <= x % < 25

#### Other substances representing a hazard:

INDEX	CAS	EC	Name	Symb.	R:	%
603-057-00-5	100-51-6	202-859-9	BENZYL ALCOHOL	Xn	20/22	10 <= x % < 25
604-001-00-2	108-95-2	203-632-7	PHENOL	T	23/24/25 34 48/20/21/22 68	0 <= x % < 2.5
604-030-00-0	80-05-7	201-245-8	BISPHENOL A	Xn	37 41 43 62.F3	2.5 <= x % < 10
612-104-00-9	124-09-4	204-679-6	HEXAMETHYLENEDIAMINE	C	34 37 21/22	0 <= x % < 2.5

#### Substances present at a concentration below the minimum danger threshold:

No known substance in this category present.

#### Other substances with occupational exposure limits:

No known substance in this category present.

### 3 - IDENTIFICATION OF HAZARDS

This product is not classed as flammable. Refer to the recommendations regarding the other products present on the site

Possibility of corrosive effects.

The preparation causes sensitisation of the skin and respiratory organs. It also irritates the skin and prolonged contact may aggravate this effect.

Possibility of category three mutagenic effects.

Possibility of noxious effects with symptoms of slight poisoning by inhalation, contact with the skin and swallowing.

### 4 - FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing in an unconscious person.

#### In the event of exposure by inhalation:

If a large quantity is inhaled, move the patient into the fresh air and keep him/her warm and still.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

Do not give the patient anything orally.

#### In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

**In the event of splashes or contact with skin:**

Remove all contaminated or stained clothing immediately. Do not use them again until they have been decontaminated.  
Wash the skin thoroughly with soap and water or a recognised cleaner.  
DO NOT use solvents or thinners.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital

**In the event of swallowing:**

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water, administer activated medical charcoal and consult a doctor.

Consult a doctor and show him the label.

If swallowed accidentally, do not allow to drink, do not induce vomiting and transfer to hospital immediately by ambulance. Show the label to the doctor.

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**5 - FIRE-FIGHTING MEASURES**

Not relevant.

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**6 - ACCIDENTAL RELEASE MEASURES**

**Personal precautions:**

Avoid inhaling the vapors.  
Avoid any contact with the skin and eyes.  
Consult the safety measures listed under headings 7 and 8.

**Environmental precautions:**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

**Methods for cleaning up:**

Neutralise with an acidic decontaminant.

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

If a large amount has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

Clean preferably with a detergent, do not use solvents.

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**7 - HANDLING AND STORAGE**

The regulations relating to storage premises apply to workshops where the product is handled.

Anyone with a history of asthma, allergies, chronic or periodic respiratory problems must on no account use these preparations

Anyone with a history of skin sensitisation must on no account handle such products

**Handling:**

Handle in well-ventilated areas.

**Fire prevention:**

Prevent access by unauthorised personnel.

**Recommended equipment and procedures:**

For personal safety, see §8.

Observe precautions stated on label and also industrial safety regulations

Avoid inhaling vapors.

Product must not come into contact with the skin and eyes

Provide safety showers and eye washes in workshops where the product is handled constantly

**Prohibited equipment and procedures:**

Smoking, eating and drinking are prohibited in premises where the preparation is used

Never open the packages under pressure

**Storage:**

Keep the container tightly closed in a dry, well-ventilated place

Keep away from food and drink, including those for animals.

## 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Use personal protection equipment as per Directive 89/686/EEC.

Anyone with a history of skin sensitisation, asthma, allergies, chronic or periodic respiratory problems must on no account use these preparations

### Exposure limit values per INRS ND 2098-174-99 and ND 2114-176-99:

France	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP N°:
124-09-4	-	-	-	-	-	-
111-40-0	1	4	-	-	AC	49,49 Bis
80-05-7	-	-	-	-	-	-
108-95-2	2	7,8	-	-	*	- -

### Exposure limit values per 2006/15/CE, 2000/39/EC and 98/24/EC:

EC	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:
108-95-2	2	7.8	-	-	Peau

### Exposure limit values (2003-2006):

UK/OES	TWA:	STEL:	Ceiling:	Definition:	Criterion:
111-40-0	1 ppm	-	-	-	-
Germany/AGW	AGW:	AGW:	Faktor:	Bemerkungen:	
80-05-7	-	5 mg/m3 E	1(I)	DFG, Y	
108-95-2	2 ml/m3	7,8 mg/m3	-	EU, H	
UK/WELs	TWA:	STEL:	Ceiling:	Definition:	Criterion:
111-40-0	1 ppm	-	-	-	-
108-95-2	2 ppm	-	-	-	-
UK/MEL	TWA:	STEL:	Ceiling:	Definition:	Criterion:
108-95-2	2 ppm	-	-	-	-
ACGIH/TLV	TWA:	STEL:	Ceiling:	Definition:	Criterion:
124-09-4	0.5 ppm	-	-	-	-
111-40-0	1 ppm	-	-	-	-
108-95-2	5 ppm	-	-	-	-
Germany/MAK	TWA:	STEL:	Ceiling:	Definition:	Criterion:
80-05-7	5 mg/m3	5 mg/m3	-	-	I

### Respiratory protection:

With this preparation, avoid in particular any inhalation of vapors.

### Hand protection:

Protective creams may be used for exposed skin, but they should not be applied after contact with the product.

Where there is a risk of contact with the hands, suitable gloves must be used

### Eye and face protection:

Avoid contact with the skin and eyes

Provide personnel with gloves, face masks and safety goggles.

Provide eye washes in workshops where the product is constantly handled

### Skin protection:

Wear suitable protective clothing, in particular an apron and boots. These items must be kept in good condition and cleaned after use.

For further information, see § 11 of S.D.S. - Toxicological information.

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

### General information:

Physical state: fluid liquid

### Important health, safety and environmental information:

pH of the substance or preparation: slightly basic.

When a pH measure is possible, it has a value of: not stated.

Boiling point/boiling range: not relevant.

Flash point interval: Flash point: > 61°C

vapour pressure: not specified.

Density: > 1

Density: 1 ± 0.1

water solubility: Soluble.

Viscosity:	100 - 160 cps @ 25°C
<b>Other information:</b>	
melting point/melting range:	not relevant.
Self-ignition temperature:	not relevant.
Decomposition point/decomposition range :	not relevant.
% VOC:	0
Miscibility	Alcohols, aromatic hydrocarbons

## 10 - STABILITY AND REACTIVITY

The preparation is stable at the handling and storage conditions recommended per § 7 of the safety data sheet,

## 11 - TOXICOLOGICAL INFORMATION

No data is available regarding the preparation itself.

It is generally agreed that substances contained carry the risk of noxious, irreversible, non-lethal effects after a single exposure

It is generally agreed that substances contained are likely to cause tissue damage in less than four hours after application to the healthy, unbroken skin of an animal.

It is generally agreed that substances contained are likely to cause, among certain predisposed subjects, a sensitisation reaction in the event of inhalation and exposure to the skin.

It is generally agreed that substances contained are likely to cause category 3 mutagenic effects.

## 12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

The product must not be allowed to run into drains or waterways.

## 13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

### Waste:

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

### Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

## 14 - TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2005 - IMDG 2004 - ICAO/IATA 2005).

UN2735=AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.
	8	C7	III	8	80	LQ19	274



IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.
	8	-	III	5 L	F-A,S-B	223 274 944

  

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note
	8	-	III	818	5 L	820	60 L	A3
	8	-	III	Y818	1 L	-	-	-

## 15 - STATUTORY INFORMATION

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations

In addition directive 2004/73/EC with the 29° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.

This product is not classed as flammable.

**Preparation classification:**

Corrosive.



**Contains:**

603-057-00-5	1,2-DIAMINOCYCLOHEXANE
604-001-00-2	BENZYL ALCOHOL
604-030-00-0	PHENOL
612-058-00-X	BISPHENOL A
612-059-00-5	DIETHYLENETRIAMINE
	3,6-DIAZAOCTANETHYLENEDIAMIN

**Particular hazards associated with the preparation and safety recommendations:**

R 42/43	May cause sensitization by inhalation and skin contact.
R 20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R 34	Causes burns.
R 68	Possible risks of irreversible effects.
S 23	Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37/39	Wear suitable protective clothing, gloves and eye/ face protection.
S 45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 38	In case of insufficient ventilation, wear suitable respiratory equipment.
S 60	This material and its container must be disposed of as hazardous waste.
S 9	Keep container in a well-ventilated place.

**16 - OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

**Full text of risk phrases appearing in section 2:**

R 20/22	Harmful by inhalation and if swallowed.
R 21	Harmful in contact with skin.
R 21/22	Harmful in contact with skin and if swallowed.
R 23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R 34	Causes burns.
R 37	Irritating to respiratory system.
R 41	Risk of serious damage to eyes.
R 42/43	May cause sensitization by inhalation and skin contact.
R 43	May cause sensitization by skin contact.
R 48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R 52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 62.F3	Possible risk of impaired fertility.
R 68	Possible risks of irreversible effects.