

MATERIAL SAFETY DATA SHEET

Product name : **CL-427**

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Date : 08/12/2005

1 IDENTIFICATION OF THE SUBSTANCE

Commercial tradename: : **Crosslinker CL-427**

Application : Polifunctional aziridine
Crosslinker.

Manufacturer : **MENADIONA, S.L.**
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2 CHEMICAL CHARACTERISATION

Chemical name : Polyfunctional aziridine crosslinker.

Synonym : CL-427 Crosslinker

CAS Number : [57116-45-7]

EC number (EINECS) : 501286

Composition / information on ingredients:

Concentration	Material	CAS number	Symbol	R- phrases
> 99%	Polyfunctional aziridine Crosslinker	[57116-45-7]	Xi	R36/38, R43

3 HAZARDS IDENTIFICATION

Irritant.

Irritating to skin and eyes. May cause sensitisation by skin contact.

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4 FIRST AID MEASURES

- Inhalation : Remove patient from exposure. Obtain medical attention.
- Eye contact : Immediately irrigate with clean water, holding the eyelids apart, for at least 15 minutes. Obtain medical attention.
- Skin contact: : Remove contaminated clothing and was affected skin with soap and water.
Obtain medical attention.
- Ingestion : In case of ingestion, induce vomiting. Obtain medical attention.

5 FIRE FIGHTING MEASURES

- Extinguishing media : Powder or foam.
- Special fire fighting : Wear self-contained positive breathing apparatus and complete procedures
personal protective equipament. Remove all ignition sources. Use a water spray to cool fire-exposed containers.
- Special exposure : Close containers may rupture when exposed to extreme heat
hazards Autoignition temperature: 482°C

6 ACCIDENTAL RELEASE MEASURES

- Protección personal : Use during all cleaning: plastic or rubber gloves, security glasses and gas mask.
- Methods of cleaning: : Absorb spillages in sand, earth or any suitable absorbent material.
Transfer to a container for disposal.
Small spillages: Flash with water, react with ammonium thiosulfate, flash again with water.
- Environmental precautions: : Do not release to the environment.
If substance has entered a water course or sewer or been split on soil or vegetation, advise police.

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7 HANDLING AND STORAGE

- Handling : Use nitrile rubber gloves, chemical goggles or splash shield.
Avoid contact with skin and eyes
- Storage: : Keep away from heat. Segregate from acids and oxidizers.
Keep container tightly closed.
Store in cool dry place.
Safety shower and eyewash facilities must be immediately available.
Keep the container hermetically closed.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- Exposition control; : Use only in well-ventilated areas.
Do not breath vapour/spray or smoke
Discard contaminated shoes.
Wash hands with soap and water.
- Personal protection: :
- Respiratory protection: : yes (in spray mists)
 - Hand protection: : yes.
 - Eye protection: : yes.
 - Skin protection : yes (all the body)

9 PHYSICAL AND CHEMICAL PROPERTIES

- Apperance: : Clear amber liquid.
- Molecular formula : $C_{20}H_{33}N_3O_7$
- Molecular weight : 427.23
- Density : Between 1.155 and 1.175 g/ml at 25°C
- Solubility : 100% in water. Miscible with acetone, methanol, chloroform and benzene.
- Viscosity : Not less than 1.200 mPa.s at 25°C

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10 STABILITY AND REACTIVITY

Stability : Material in itself is normally stable.

Conditions to avoid : Temperatures above 50°C

Material to avoid : No

Hazards decomposition : Combustion may produce NO_x and carbon monoxide products

11 TOXICOLOGICAL INFORMATION

Exposition Via:

Inhalation: Yes Cutaneous: Yes Ingestion: No

Toxicity:

Oral LD₅₀: 2000 mg/kg (1)

Cutaneous LD₅₀: >3000 mg/kg (2)

(1) Low toxicity.

(2) Low toxicity for abortin. May cause mild skin irritation and sensitization

May cause severe irritation eyes.

12 ECOLOGICAL INFORMATION

No specific information.

13 DISPOSAL CONSIDERATIONS

Dispose in accordance with local and state regulations

14 TRANSPORT INFORMATION

Not classified as hazardous for transport.

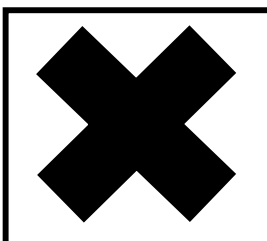
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15 REGULATORY INFORMATION

Classification : Xi. Irritant



Frases R : R36/38 Irritating to eyes and skin
R43 May cause sensitisation by skin contact.

Frases S : S24/25 Avoid contact with skin and eye
S36 Wear suitable protective clothing

16 OTHER INFORMATION

The information contained herein is applicable solely to the chemical substance when used in manufacturing and does not relate to other use of the substance described.

Its use is intended for persons having technical skill and their own discretion and risk.

The information has been developed from sources considered reliable, but has not been independently verified. Therefore, the manufacturer cannot guarantee the accuracy of the information from these sources nor should the statements contained herein be considered an official expression

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Indicate variations with regard to the previous version.

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