



## SAFETY DATA SHEET Polystria Hardener

### 1 - IDENTIFICATION OF PREPARATION AND COMPANY/BUSINESS

**Preparation:**

Name: POLYSTRIA Hardener.  
Product code: H1995D.

**Company/business:**

Registered company name: SICOMIN  
Address: RN 568 - BP23 – 13161 Châteauneuf-les-Martigues - FRANCE  
Telephone: +33 (0)4.42.42.30.20 Fax: +33 (0)4.42.81.29.29  
E.mail: composites@sicomin.com  
Emergency telephone No.: 01 45 42 59 59.  
Association/Organisation: ORFILA.

### 2 - INFORMATION REGARDING CONSTITUENTS

**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)
- 607-195-00-7 Cas 108-65-6 EEC 203-603-9 2-METHOXY-1-METHYLETHYL ACETATE Concentration  $\geq 25.00\%$  and  $< 50.00\%$ . Symbol: Xi R: 10-36
- M00125 Cas 28182-81-2 POLYISOCYANATE ALIPHATIQUE Concentration  $\geq 50.00\%$  and  $< 100.00\%$ . Symbol: Xi R: 43

**Other substances representing a hazard:**

- No known substance in this category present.

**Substances present at a concentration below the minimum danger threshold.**

- 615-011-00-1 Cas 822-06-0 EEC 212-485-8 HEXAMETHYLENE-DI-ISOCYANATE Concentration  $\geq 0.00\%$  and  $< 2.50\%$ . Symbol: T R: 23-36/37/38-42/43

**Other substances with occupational exposure limits.**

- No known substance in this category present.

### 3 - IDENTIFICATION OF HAZARDS

- This product is classed: Flammable.
- Possibility of irritation to the eyes.
- Possibility of skin sensitisation. The preparation may also irritate the skin and prolonged contact may aggravate this effect.

### 4 - FIRST AID.

- 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.

**In the event of splashes or contact with eyes.**

- Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.
- Refer the patient to an ophthalmologist, in particular if there is any redness, pain or visual impairment.
- Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

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

- Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.
- DO NOT use solvents or thinners.

**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 and consult a doctor.
- Call a doctor immediately and show him the label.

N/A !

### 5 - FIRE-FIGHTING MEASURES

- Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

**In the event of fire, the recommended extinguishing agents are:**

- Carbon dioxide, chemical powders, foams, and other extinguishing gases.
- In the event of fire, use specifically suitable extinguishing agents. Never use water.



#### **Extinguishing agents not to be used**

- Water is not generally recommended since it can be ineffective; however, it can be used successfully to cool containers exposed to the fire and to disperse fumes.
- A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.
- Do not breathe in smoke.
- Prevent the effluent of fire-fighting measures from entering drains or waterways.

#### **Special equipment for fire-fighting personnel.**

- Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

### **6 - MEASURES TO BE TAKEN IN THE EVENT OF ACCIDENTAL SPILLAGE**

#### **Safety precautions:**

- Eliminate any possible source of ignition and ventilate the premises.
- On account of the organic solvents contained in the preparation, eliminate sources of ignition and ventilate the premises.
- Avoid inhaling the fumes.
- Avoid any contact with the skin and eyes.
- Consult the safety measures listed under headings 7 and 8.

#### **Environmental safety precautions:**

- Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatom 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

#### **Cleaning methods:**

- Clean preferably with a detergent, do not use solvents.
- Contaminated areas must be cleaned very quickly.
- A possible decontaminant for flammable products may be: (expressed by volume) water (45 parts), ethanol or isopropanol (50 parts), concentrated ammonia (d-0.880) (5 parts). For non-flammable products: sodium carbonate (5 parts), water (95 parts).
- These residues must be stored for disposal in accordance with applicable regulations (see 13).

### **7 - HANDLING AND STORAGE**

- The regulations relating to storage premises apply to workshops where the product is handled.
- Anyone with a history of skin sensitisation must on no account handle such products

#### **Handling:**

- Handle in well-ventilated areas.
- The fumes are denser than air. They can spread along the ground and form explosive mixtures with air
- Prevent the formation of flammable or explosive concentrations in air and avoid vapour concentrations higher than the occupational exposure limits.

#### **Fire prevention:**

- Prevent the accumulation of electrostatic charges with connections to earth
- The preparation may become electrostatically charged; always place on the ground during transfer. Wear antistatic shoes and clothes and make floors of conductive materials.
- Use the product in premises where there are no naked flames or other sources of ignition and have protected electrical equipment
- Keep packages tightly closed and away from sources of heat, sparks and naked flames.
- Do not use tools which may produce sparks. Do not smoke.
- 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 solvent fumes and spray-gun aerosols
- Packages which have been opened must be reclosed carefully and stored in an upright position
- Avoid inhaling fumes.
- Where the personnel must carry out work in a booth, whether for spraying or otherwise, the ventilation may be inadequate to control particles and solvent fumes in every case.
- It is therefore recommended that personnel wear masks with a compressed air supply during spraying operations until the concentration of particles and solvent fumes has fallen below the exposure limits.
- Avoid contact of product with the skin and eyes

#### **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 place.
- Keep away from all sources of ignition - do not smoke.
- Keep well away from all sources of ignition, heat and direct sunlight
- The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

### 8 - EXPOSURE CONTROL - PERSONAL SAFETY

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

#### Technical measures.

- Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.
- If this ventilation is insufficient to maintain the concentration of solvent fumes below the exposure limits, wear breathing apparatus

#### Exposure limits 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°:
607-195-00-7	-	-	-	-	-	-
615-011-00-1	0.01	0.075	0.02	0.15	AR	62
Germany	Class:	MAK-ppm:	MAK-mg/m3:	Notes:	Notes:	
607-195-00-7	I	50	270	C		
615-011-00-1	I	0.005	0.035	Sens		
ACGIH(TLV)	TWA-ppm:	TWA-mg/m3:	STEL-ppm:	STEL-mg/m3:	Notes:	Notes:
607-195-00-7	-	-	-	-	-	-
615-011-00-1	0.005	0.034	-	-	-	-

#### Exposure limits per 2000/39/EC and 98/24/EC:

	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:
607-195-00-7	50	275	100	550	Peau

#### Safety breathing apparatus:

- Where workers encounter concentrations higher than the exposure limits, they must wear suitable, approved masks.

#### Hand protection.

- Protective creams may be used for exposed skin, but they should not be applied after contact with the product.
- Protective creams may be used for exposed skin, but they should not be applied after contact with the product.
- Due to the solvents present, it is recommended that polyvinyl alcohol or nitrile rubber gloves be worn.

#### Eye and face protection.

- Avoid contact with eyes.
- Wear safety goggles.
- Provide eye washes in workshops where the product is constantly handled

#### Skin protection.

- Wear antistatic clothing made of natural fibre or synthetic fibre resistant to high temperatures.
- After contact with the product, any contaminated part of the body shall be washed
- For further information, see § 11 of S.D.S. - Toxicological information.

### 9 - PHYSICAL PROPERTIES

Density:	> 1
Acid/base character of preparation:	neutral
Solubility of preparation in water:	Insoluble.
Vapour tension at 50°C of volatile constituents:	Below 110 kPa (1.10 bar)
Physical state:	viscous liquid
Flash point interval:	23°C. < Flash point: <= 55°C.
When a pH measure is possible, it has a value of:	not stated.
Self-ignition temperature:	not specified.
Decomposition temperature:	not specified.
Melting temperature interval:	not specified.
Average distillation temperature of solvents contained:	not specified.



## 10 - STABILITY AND REACTIVITY

- When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and nitrogen oxide It may also release hydrogen cyanide, amines and alcohols.
- Keep away from oxidising agents and strongly acidic or basic materials to avoid exothermic reactions
- Exothermic reactions occur with amines and alcohols. The preparations react slowly with water and give off carbonic gas which may produce pressure increases in closed packages

## 11 - TOXICOLOGICAL INFORMATION

- No data is available regarding the preparation itself.
- Exposure to fumes from solvents contained in the preparation beyond the exposure limits stated may produce effects harmful to health, such as:
  - Irritation of mucous membrane and respiratory system, kidneys, liver and central nervous system.
  - Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.
  - Prolonged or repeated contact with the preparation may strip the skin of its natural oil and thus cause non-allergic dermatitis on contact and absorption through the epidermis.
  - Splashes in the eyes may cause irritation and reversible damage
  - It is generally agreed that substances contained are likely to cause, when applied to the eye of an animal, the appearance of major lesions which persist for at least twenty-four hours
  - It is generally agreed that substances contained are likely to cause, among certain predisposed subjects, a sensitisation reaction by cutaneous route
  - Based on the properties of isocyanates and taking into account toxicological data for similar preparations, this preparation may cause irritation and/or sensitisation of the respiratory system.
  - It may also lead to asthma, respiratory problems and angina
  - Those susceptible may display asthmatic symptoms when exposed to atmospheres with an isocyanate concentration well below those of the VLE: exposure limits.
  - Repeated exposure may cause permanent respiratory problems.

## 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.

## 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
- UN 1263 = Paint flammable (including lacquer, enamel, stain, shellac, varnish, polish and related material).

ADR/RID	Class	Number	Code	Identif.	Label		
	Not subject to this regulation (Q<450L). Transport following Nota E of the 2301 marginal						
	3	31° C	30	1263	3		
IMDG	Page	N°ONU	Class	Number	2°Label	Identif.	N°GSMU
		1263	3.3	III	-	3-05	310,313

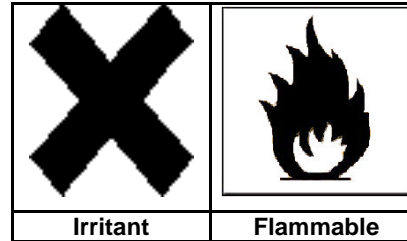
The page number 3372 should not appear anymore on the Dangerous Goods Declaration (Amendment 28-96).

IATA	N°ONU	Class	2°Label	Number	Passenger	Passenger	Freighter	Freighter	nota
	1263	3	-	III	309	60 L	310	220 L	A72
	1263	3	-	III	Y309	10 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 2001/59/EC with the 28° adaptation of directive 67/548/EC (Hazardous substances) have been taken into account.
- Contains compounds with an isocyanate base - refer to the information supplied by the manufacturer. This information is found on this safety data sheet

**Preparation classification.**



**Contains:**

- 607-195-00-7 2-METHOXY-1-METHYLETHYL ACETATE
- M00125 POLYISOCYANATE ALIPHATIQUE

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

- R 43 May cause sensitization by skin contact.
- R 36 Irritating to eyes.
- R 10 Flammable.
- Contains isocyanates. See information supplied by the manufacturer.
- S 23 Do not breathe vapour.
- S 24 Avoid contact with skin.
- S 37 Wear suitable gloves.
- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 60 This material and/or its container must be disposed of as hazardous waste.

**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