 CIVITANOVA MARCHE(MC) - ITALY	Safety specifications In accordance with con Law CE 2001/58/CEE	Date of issue: 14/11/2008 Review n° 1
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SOLID COLOURED

brand: **MARMOLIT**

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Identification of the substance/product: **MARMOLIT**

Use of the substance/product: Unsaturated polyester resin – styrene solution;
Glue for marble – stone - granite

Identification of the company/firm: B-CHEM snc
Via Enzo Ferrari, 25 – Industrial Area A
62012 CIVITANOVA MARCHE (MC) - ITALY
Tel. + 39 0733 801444, Fax + 39 0733 801062

Emergency contact: B-CHEM snc
Tel. + 39 0733 801444

2. PRODUCT COMPOSITION AND INFORMATION

Chemical composition of the product: Preparation consists of: unsaturated polyester resin containing styrene, colouring pigment with mineral charged.

Dangerous substance in the compound:

Dangerous substances in the compound			
Styrene	Cas: 100-42-5 Einecs: 202-851-5 Number CEE: 601-026-00-0	Xn R: 10, 20, 36/38	11,5 – 12,4%

3. IDENTIFICATION OF DANGERS

Chemical and physical dangers: The product is classified as **dangerous: inflammable, noxious.**

Health hazards: Inflammable (R 10);
Noxious when smelled (R 20);
Eye-irritant (R 36);
Skin-irritant (R 38).

Environmental dangers: Possible bio-accumulation in water fauna



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4. FIRST AID MEASURES

General specifications: --

Skin contact: Clean with water and soap, carefully rinsing the affected area. Consult a doctor immediately in case of skin irritation.

Eye-contact: When there is eye-contact, rinse thoroughly with water, keeping eyes well-open. Consult a doctor immediately if still burning sensation continues.

Ingestion: Do not induce vomiting, seek immediate medical aid.

Inhalation: In case of signs of fainting, take the subject to a well-aired place. Consult a doctor if the symptoms continue.

5. FIRE MEASURES

Suitable extinguishers: CO₂, powder or vaporised water-extinguishers. Extinguish large fires using vaporised water or alcohol-resistant foam.

Unsuitable extinguishers: Water.

Protective measures: Wear respirators, do not inhale smoke deriving from explosions and fires. Wear protective clothing suitable for fire fighting.

Other information: Containers at risk should be water-cooled.

6. MEASURES IN CASE OF ACCIDENTAL LEAKAGE

Personal precautions: Use protective gloves if your skin is sensitive, wear fire-proof glasses and protective clothing.

Environmental precautions: Prevent discharge into sewers/ surface water/groundwater. Contain discharges with earth and sand. If the product enters sewers or pollutes soil or vegetation, call the competent authorities.

Decontamination methods: Collect the liquid with absorbant materials (sand, universal binder, sawdust). In case of a major discharge, try to contain it and to collect the liquid in vacuum-sealed cisterns. Do not wash away using water or liquid detergents. Ventilate sufficiently.



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7. HANDLING AND STORAGE

- Handling precautions:** Keep in a cool, dry area, in perfectly closed containers. Protect from heat and from direct sunlight. Ventilate working places, also ensuring that the floor is well-ventilated. Prevent the creation of aerosol. Do not smoke. Use devices which prevent sparks and explosions.
- Storage – stocking:** Suitable material for containers and conduits: stainless steel. Take measures against the leakage of electrostatic charges. Monitor the leakage of solvent and ensure the absence of trigger sources. Store separately from catalysts.
- Particular uses:** Keep the containers hermetically sealed, in a cool place and, if possible, at a maximum temperature of 25 °C. Be careful when using containers which have been already opened.

8. PERSONAL PROTECTION AND EXPOSURE CONTROL

- Extreme value for exposure (styrene):** Extreme value TLV-TWA: 85 mg/m³ (20 ppm)
Extreme value TLV-STEL: 170 mg/m³ (40 ppm)
- General rules for protection and hygiene** Respect the usual safety measures when handling chemical substances. Keep away from food and drinks. Remove contaminated clothes. Wash your hands carefully before breaks or when the work is finished. Avoid contact with eyes and skin. In the workplace, install washing facilities (emergency showers and eye-wash stations).

Individual protective means:

Protective mask for your respiratory tract		During short and minimum exposure, use a gas mask with an approved filter. During more intense and longer exposures, wear a breathing apparatus.
Gloves to protect your hands		The material of the gloves has to be water-proof and stable against the product. The choice of the material is linked to the passage time, to the permeation levels and to the degradation of the gloves. Permeation time of the material of the gloves: ask to the supplier of the gloves the exact passage time and respect it.
Glasses to protect your eyes		Protective glasses.
Protective overalls		Light protective clothes.

Check of environmental exposure: To be done by the user



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9. CHEMICAL-PHYSICAL CHARACTERISTICS

Physical state and color:	Solid coloured: black, red, green, grey;
Odour:	Characteristic odour of styrene;
pH to 20°C:	n. a.;
Relative density: to 20°C:	Not available;
Dynamics viscosity:	> 2600 mPa*s ⁻¹ ;
Water solubility:	Insoluble;
Dry residual to 105°C:	84,3%;
Flash point:	30°C;
Acid value:	6,0 mgKOH/gr;
Temperature of fusion:	Not available;
Temperature of boiling:	Not available;
Temperature ignition:	Not available;
Limit of inferior inflammability:	Not available;
Limit of advanced inflammability:	Not available;
Vapor tension to 20°C:	Not available.

10. STABILITY AND REACTIVITY

Conditions to avoid:	Direct exposure to sunlight or the storing at temperatures higher than 25°C.
Materials to avoid:	Acids, sodium hydroxide, iron (III) chloride, aluminium chloride, peroxides and oxidising materials in general.
Dangerous products if decomposed:	Gases, irritating vapours, carbon monoxide.
Further information:	Dangerous polymerization reaction under certain conditions, with emission of heat, even with a low concentration of inhibitors and of oxygen.

11. INFORMATION ABOUT TOXICITY

Acute toxicity:

Values LD/LC₅₀ important for the classification:
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100-42-5 styrene

Oral	LD₅₀	13000 mg/kg(rat)
For inhalation	LC_{50/4h}	63 mg/l(rat)

Main irritability:

- to the skin: it irritates the skin and the mucous;



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- to the eyes: irritant.

Sensitivity: we have not detected effects about sensitivity.

Further information about toxicity: the preparation has the following risks: it is

NOXIOUS, IRRITANT.

12. ECOLOGICAL INFORMATION

Toxic effects on the environment: Danger of bio-accumulation in water organisms (water fauna)


Further ecological information: Do not introduce into groundwater, streams or sewers. Danger for drinking water even when there are small discharges of product underground.

13. INFORMATION ABOUT THE DISPOSAL OF THE PRODUCT:


- **Preparation**
Suggestions: Do not dispose the product in household waste. Do not introduce it into the sewers.
- **Contaminated containers**
Suggestions: Disposal must respect national laws. Handle contaminated containers as carefully as in the case of dangerous preparations. Non-contaminated containers can be treated or recycled as non-dangerous waste, unless otherwise indicated.

14. INFORMATION ABOUT TRANSPORT

Transport by road/by rail ADR/RID (cross-border):

	Class ADR/RID-GGVS/E:	3(F)1 liquid inflammable substance
	Kemler Number:	30
	ONU number:	1866
	Packing group:	III
	Description goods:	1866 Resin in solution

Marine transport IMDG:

	Class: IMDG:	3
	Number ONU:	1866
	Label:	30
	Packing group	III
	Number EMS	F-E, S-E
	Marine pollutant:	No
	Exact technical denomination:	Resin in solution



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Air transport ICAO/IATA:



Class ICAO/IATA	3
Number ONU/ID	1866
Lebel	30
Packing group	III
Description goods	Resin in solution

Further information about transport:

When the product is transported with the hardener (peroxide), the ONU number is UN 3269, accordingly to paragraph 3.3.1 – 236 of IMDG Code, amendment nr. 33-2006, that is currently in force.

Not to be submitted to ADR if packed in containers whose capacity is below 450 litres., according to 2.2.3.1.5.

Packaging must respect instructions ADR P302 and R001 if sold in containers whose capacity is higher than 450 l.

15. INFORMATION ABOUT REGULATIONS

The classification and the labelling of the product follow Laws n. 67/548/CE and the Italian Legislative Decree n. 65/2003, with its following amendments and integration.

Danger Symbols:		Xn: Noxious
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Dangerous substance: styrene


R phrases (risks):

10	Flammable
20	Harmful by inhalation
36/38	Irritating to eyes and skin

S phrases (precaution):

9	Keep container in a well-ventilated place.
23	Do not breathe gas/fumes/vapour/aerosol.
26	In case of contact with eyes, wash them immediately with water and contact a doctor.
36/37	Wear protective clothes and gloves, suitable to protect.
43	In case of fire use sand, carbon dioxide, or anti-fire material in powder. Not to use water.
60	This material and its container must be disposed of as dangerous waste.

Further rules, limitations and prohibitory decrees

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The data and the information written in this file conform with European Laws n. 67/548/CE, 1991/155/CE, 1999/45/CE, 2001/58/CE and the provisions of the Italian Ministerial Decree n. 07/09/02 and of the Legislative Decree n. 65/2003, with its following integration and amendments. These laws deal with the classification, stocking and labelling of dangerous substances and preparations. Verify and respect the specific national, regional and local regulations dealing with dangerous activities and the protection of the environment(liquid, solid and gas emissions), which are not described in this document.

DPR 547/55: Rules for the prevention of accidents at work;
DPR 303/56: General rules about hygiene at work;
DPR 203/88: Emissions in the atmosphere;
Leg. Decree 626/94: Health and safety in the workplace;
Leg. Decree 22/97: Rules about waste, packaging and the waste derived from packaging;
Leg. Decree 52/97: Classification, packaging and labelling of dangerous substances;
Min. Decree 28/04/97:List of dangerous substances;
Leg. Decree 334/99: Activities with a serious accident risk;
Leg. Decree 152/99: Water protection – water drainage;
Leg. Decree 25/02: Exposure to chemical agents;
Law 94/55/CE and its following amendments, dealing with “Transport of dangerous substances”.

16. FURTHER INFORMATION

The data and information contained in these safety specifications about the product are based on our present knowledge. However, they are not a guarantee of the features of the product and they do not form any legal contract. Information contained in this document replaces all previous versions.

Issued by: B-CHEM snc

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