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MATERIAL SAFETY DATA SHEET 2001/58/EC
FUTURA GLASS

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1. IDENTIFICATION OF THE PRODUCT AND COMPANY

1.1 Identification of the preparation: FUTURA GLASS Code: 51572
1.2 Use of the preparation: Bodywork repair unsaturated polyester paste.
1.3 Company:
ROBERLO, S.A.
Carretera N-II, Km. 706,5 - E-17457 - Riudellots de la Selva (Girona) - SPAIN
Phone: +34 972 478060 - Fax: +34 972 477394 - info@roberlo.com – www.roberlo.com
1.4 Emergency phone number: +34 91 5620420 (National Institute of Toxicology - Spain)
13 11 26 (Poisons Information Centre - Australia)

***2. COMPOSITION/INFORMATION ON INGREDIENTS**

Substances taking part in a percentage higher than the exemption limit and presenting a health and/or environment hazard, and/or with a Community workplace exposure limit:

10-25 %	Styrene	EC: 202-851-5
	R10 Xn; R20 Xi; R36/38	CAS: 100-42-5
		No. 601-026-00-0

For more information on dangerous ingredients, see sections 8, 11, 12 and 16.

3. IDENTIFICATION OF HAZARDS

Flammable. Harmful by inhalation. Irritating to eyes. Irritating to skin.

4. FIRST AID MEASURES

When in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

4.1 By inhalation: Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.

4.2 By contact with the skin: Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. Do not use solvents or thinners.

4.3 By contact with eyes: Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, until the irritation is reduced. Call a physician immediately.

4.4 By ingestion: In case of accidental swallowing, seek immediate medical attention. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.

5. FIRE-FIGHTING MEASURES

5.1 Means of Extinction: Extinguishing powder or CO₂. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet.

5.2 Specific risks: Fire can produce a dense black smoke. As consequence of combustion or thermal decomposition, hazardous decomposition products may be produced, such as: carbon

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monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health.

5.3 Fire-proof protective equipment: Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots.

5.4 Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

6. ACCIDENTAL SPILLAGE MEASURES

6.1 Personal precautions: Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours. For exposure controls and personal protection measures, see section 8.

6.2 Environmental precautions: Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sews, inform the appropriate authorities in accordance with local regulations.

6.3 Cleaning-up methods: Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc..). Avoid use of solvents. Keep the remains in a closed container. For subsequent waste disposal, follow the recommendations in section 13.

***7. HANDLING AND STORAGE**

7.1 Handling precautions: Comply with the health and safety at work laws.

- General recommendations: Avoid any type of leakage or escape. Keep the container tightly closed.

- Recommendations for the prevention of fire and explosion risks: Vapours are heavier than air and may spread along floors to a considerable distance. Vapours can form explosive mixtures with air and are able to reach distant ignition sources and flame up or explode. Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Do not smoke. Electrical equipment should be protected to the appropriate standard. No tools with a potential for sparks should be used. Use explosion protected equipment. Switch mobile phones off.

- Flash point: 32°C Setaflash

- Autoignition temperature: 490°C

- Flammability range: 1,1 – 6,4 % Volume 25°C

- Flammability range: 0,8 – 9,0 % Volume 300°C

- Recommendations for the prevention of toxicological risks: Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.

7.2 Storage conditions: Prevent unauthorized access. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. In order to avoid leaks, the containers, after use, should be closed carefully and placed in a vertical position. Class of store: Class B1. According to. ITC MIE APQ-1, RD 379/2001. Maximum storage period: 12 months. Temperature interval: min: 5°C, max: 32°C.

- Combustion heat: 3898 Kcal/kg

- Incompatible materials: Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

- Conditions to avoid: Heat: Keep away from sources of heat. Light: Avoid direct contact with sunlight. Humidity: Avoid extreme humidity conditions.

- Type of packaging: According to current legislation.

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***8. EXPOSURE CONTROLS/PERSONAL PROTECTION 98/24/EC**

8.1 Occupational Exposure Limits:
INSHT 2005:

Spain	VLA-ED- ppm:	VLA-ED- mg/m3:	VLA-EC - ppm:	VLA-EC - mg/m3:	Notes:
100-42-5	20	86	40	172	VLB, ae

INRS ND 2098, 02/2005:

France	VME-ppm	VME- mg/m3	VLE-ppm	VLE- mg/m3	Notes:	TMP N°
100-42-5	50	215	-	-	-	84

DFG 2004:

Germany	MAK-ppm:	MAK- mg/m3:	Note:
100-42-5	20	86	DFG, Y

ACGIH 2004:

ACGIH(TLV)	TWA-ppm:	TWA- mg/m3:	STEL- ppm:	STEL- mg/m3:	Note:
100-42-5	20	85	40	170	A4

2000/39/EC and 98/24/EC:

EC	TWA-ppm:	TWA- mg/m3:	STEL-ppm:	STEL- mg/m3:	Notes:
-	-	-	-	-	-

8.2 Occupational exposure controls, Directive 89/686/EEC: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these measures are not sufficient to maintain concentrations of particulates and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

- Protection of respiratory system: Avoid the inhalation of vapours. Mask: Mask for gases and vapours (EN141). In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers. The respiratory equipment with filters does not work satisfactorily when the air contains high concentrations of vapour.

- Protection of eyes and face: Install emergency eye baths close to the working area. Goggles: Safety goggles with suitable lateral protection (EN166). Face shield: No.

- Protection of hands and skin: Install emergency showers close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred. Gloves: Gloves resistant against chemicals (EN374). The breakthrough time of the selected glove material should be superior to the pretended period of use. The gloves should be immediately replaced when any sign of degradation is noted. Boots: No. Apron: No. Clothing: Suitable work clothes which avoid contact with the product should be worn.

8.3 Environmental exposure controls: Avoid any spillage in the environment of the product, wastes, packages or spraybooth sewages. Avoid any release into the atmosphere above the legal limits allowed.

***9. PHYSICAL AND CHEMICAL PROPERTIES**

- Physical state: Paste
- Colour: Blue
- Odour: Characteristic
- Viscosity: 13 x 10⁶ cps 20°C Brookfield

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- Specific gravity: 1,22 g/cc a 20°C
- Solubility in water (styrene): 310 mg/l
- Boiling point: 145,2°C at 760 mmHg
- Flash point: 32°C Setaflash
- Vapour pressure: 4,5 mmHg at 20°C

10. STABILITY AND REACTIVITY

10.1 Stability: Stable under recommended storage and handling conditions.

10.2 Dangerous reactions: Possible dangerous reaction with oxidizing agents, acids, alkalis, peroxides.

10.3 Thermal decomposition: As consequence of thermal decomposition, hazardous products may be produced.

11. TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available.

11.1 Toxicological effects: Exposure to solvent vapour concentrations in excess of the stated occupational exposure limit, may result in adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Symptoms and signs include: headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea; other effects may be as described for exposure to vapours. Repeated or prolonged contact with the solvents of the preparation, may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Liquid splashes in the eyes may cause irritation and reversible damage.

11.2 Dose and lethal concentrations for individual ingredients:

	DL50 Oral mg/kg	DL50 Cutaneous mg/kg	CL50 Inhalation mg/l.4hours
Styrene	2650 Rat		12 Rat

For more information about ingredients dangerous to health, see sections 2 and 8.

*12. ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available.

12.1 Spills on the soil: Prevent contamination of soil.

12.2 Spills in water: Do not allow to escape into drains, sewers or water courses.

12.3 Emissions to the atmosphere: Avoid any solvent release into the atmosphere.

- Mixing application VOC: 6 g/l ASTM D-3960

- Aromatic hydrocarbons: 18,7 % Weight

12.4 Ecotoxicological data for individual ingredients:

	CL50 mg/l.96hours	CE50 mg/l.48hours	CI50 mg/l.72hours
Styrene		255 Dafnia	

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***13. CONSIDERATIONS FOR DISPOSAL**

13.1 Handling of waste, Directive 75/442/EEC~91/156/EC: Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local/national regulations. For exposure controls and personal protection measures, see section 8.

13.2 Disposal of empty containers, Directive 94/62/EC: Emptied containers and packaging should be disposed of in accordance with currently local/national regulations.

13.3 Procedures for neutralising or destroying the product: Controlled incineration in special facilities for chemical waste, but in accordance with local regulations.

***14. TRANSPORT INFORMATION**

14.1 Transport by road, Directive 94/55/EC (ADR 2005):	Free
Transport by rail, Directive 96/49/EC (RID 2005):	Free
14.2 Transport by sea (IMDG 32-04):	Free
14.3 Transport by air (ICAO/IATA):	Free

***15. INFORMATION ON REGULATIONS**

15.1 EC Labelling Xn

This product is FLAMMABLE and HARMFUL in accordance with Guideline 67/548/EEC - 2004/73/EC and 1999/45/EC - 2001/60/EC.

R10 Flammable.

R20 Harmful by inhalation.

R36/38 Irritating to eyes and skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S51 Use only in well-ventilated areas.

Dangerous ingredients: Styrene

· It is applicable the Directive 2004/42/EC, Annex I.2): Emission subcategory B). VOC (product ready for use): 6 g/l, VOC max: 250 g/l starting from 01.01.2007

15.2 Restrictions to the marketing and use in accordance with Directive 76/769/EEC: Not applicable.

15.3 Other regulations: Not available.

***16. OTHER INFORMATION**

Intended use: Only for professional use.

Text of R-phrases listed in section 2:

R10 Flammable.

R20 Harmful by inhalation.

R36/38 Irritating to eyes and skin.

Material Safety Data Sheet regulations: Material Safety Data Sheet in accordance with Directive 91/155/EEC~2001/58/EC.

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The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.
