



MATERIAL SAFETY DATA SHEET
PRODUCT: **TYRE REPAIR SPRAY**
EMISSION DATE: 28/10/2008

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

1.1 IDENTIFICATION OF THE PREPARATION: **TYRE REPAIR SPRAY**

REF. 1100 – 1150 – 1200 – 1300 – 1400 – 1500

1.2 USE OF THE PREPARATION:

1.3 COMPANY IDENTIFICATION:

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1.4 EMERGENCY TELEPHONE:

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2. HAZARDS IDENTIFICATION

- ✓ **To man:** Extremely flammable. The container exposed to temperatures exceeding 50 ° C (122° F) may become deformed and explode. Breathing high concentrations of vapour may cause light-headedness, shortness of breath and unconsciousness. Vapour is heavier than air and can form flammable and explosive mixture with air.
- ✓ **To environment:** See Section 12

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of Directive 67/548/EEC (1)	N° CEE N° CAS	Concentration Range	Symbol	Risk Phrases
Ethylene glycol	203-473-3 107-21-1	< 5 %	Xn	R22
Gas of melted and softened petroleum, petroleum gas ⁽²⁾	68476-86-8	> 20 %	F	R12

4. FIRST AID MEASURES

- ✓ **Inhalation:** Move to fresh air in case of accidental inhalation. Call for prompt medical attention.
- ✓ **Ingestion:** Do not induce vomiting unless directed by physician. Seek medical attention immediately.
- ✓ **Skin contact:** Remove contaminated clothing and wash with water and soap. If irritation persists, seek medical attention.
- ✓ **Eyes contact:** Flush eyes with large amounts of water for 15 minutes or until irritation subsides. Call for prompt medical attention.



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5. FIRE-FIGHTING MEASURES

- ✓ **Suitable extinguishing media:** In the case of fire use chemical dust extinguisher or with CO₂. Cool with water the aerosols container exposed at fire. Combustion products are CO_x and H₂O.
- ✓ **Extinguishing media which must not be used for safety reasons:** No one
- ✓ **Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:** Aerosol container overheated become deformed, explodes and may be project in a big distance. The exposition to combustion gas may implies risk for health: use personal respirator against smoke and stream of fire.
- ✓ **Special protective equipment for fire-fighters:** Personal protective respiratory device, According to the fire extension, it is advisable to use a complete protection. Aerosol containers exposed to fire should be cooled down with water.

6. ACCIDENTAL RELEASE MEASURES

- ✓ **Personal precautions:** Wear suitable protective clothing and gloves. Remove any sources of ignition and well ventilate the local. Avoid breathing vapours.
- ✓ **Environmental precautions:** Remove any possible source of ignition and all naked flames. Do not smoke. Limit the fire with earth and sand. In case the product has reached a watercourse, a drain or has contemned vegetation and soil, it is necessary to inform the concerned authorities.
- ✓ **Methods for cleaning up:** If the product is liquid, avoid penetration into the drains. Eventually absorb it with inert substances. In case of aerosol emission, sufficient ventilation should be provided.

7. HANDLING AND STORAGE

- ✓ **Handling:** Do not spray on a naked flame or any incandescent material. When using do not eat, drink or smoke. Avoid vapour contact and inhalation.
- ✓ **Storage:** Protect from sunlight and do not expose to temperature exceeding 50° C (122°F). Keep the containers in a steady position to avoid any possibility to fold down or bump. Take precautionary measures against static discharges. Keep container in a well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- ✓ **Exposure limit values:**

Nome sostanza	Valore limite Tlv-Twa
Ethylene glycol	50 ppm (127 mg/m ³)
Petroleum gas	800 ppm (1900 mg/m ³)

- ✓ **Exposure controls:**

- **Respiratory protection:** If the maximum limit is exceeded, use a mask with suitable filters.
- **Hand protection:** In the normal condition don't need particular protection.
- **Eye protection:** In the normal condition don't need particular protection.
- **Skin protection:** In the normal condition don't need particular protection.



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- **Environmental exposure controls:** Do not dispose into the environment after use.

9. PROPRIETÀ FISICHE E CHIMICHE

Appearance:	Pressurized container with product base/gas
Odour:	Characteristic of solvent.
Colour:	White
Density at 20° C:	0,63 – 0,68
Volume of container:	140-210-270-405-520-650
Volume aerosol product:	100-150-200-300-400-500
Pressure a 20° C:	5,5 bar
Aerosol product flammable temperature:	Less than 21° C
Gas flammability:	Less than 0° C
pH:	Not measurable
Solubility in water:	Soluble
Solubilità in oil:	Not solubile
Foaming power:	Foaming
VOC:	

10. STABILITY AND REACTIVITY

- ✓ **Conditions to avoid:** Aerosol containers overheated with temperatures exceeding 50° C (122° F) may deform, burst and be projected to a long distance. Take precautionary measures against static discharges.
- ✓ **Materials to avoid:** Keep away from oxidant agent, chemical products acids or alkalises to avoid container corrosion.
- ✓ **Hazardous decomposition products:**

11. TOXICOLOGICAL INFORMATION

In order to evaluate the toxicological effects deriving from the exposure to the compound, it is necessary to consider the concentration of the single substances. Toxicological informations regarding the main substances included in the compound are listed as follows.

- ✓ **Toxicity for ingestion:** May cause lung damage if swallowed
- ✓ **Toxicity for inhalation:** Inhalation may provoke irritation to respiratory apparatus mucosal and absorption.
- ✓ **Irritation effects from skin contact:** Long skin contact may provoke irritation
- ✓ **Irritation effects from eyes contact:** Eyes contact may provoke irritations.

12. ECOLOGICAL INFORMATION

In order to evaluate effects on environment, it is necessary to consider the concentration of the single substances. Use the product with care, avoid to release the product into the environment. Doesn't contain substances dangerous to the ozone layer.

- ✓ **Ecotoxicity:**
- ✓ **Mobility:**
- ✓ **Persistence and degradability:**



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- ✓ *Bioaccumulative potential:*
- ✓ *Other adverse effects:*

13. DISPOSAL CONSIDERATIONS

Material can be disposal in accordance with local law and regulations. Do not dispose into the environment.

14. TRANSPORT INFORMATION

RINA: M.M.M. 2-42

ADR/RID: UN 1950, Aerosol, 2, ADR (Ed. 2007), LQ2 (Cap. 3.4.6, Colonna 7)

IMDG: UN N° 1950, Classe 2.1 Aerosols, Code IMDG page 2102, Ems: F-D

ICAO/IATA: UN 1950

15. REGULATORY INFORMATION

In according with European regulation 94/1/CEE, 75/324/CEE, 98/98/CEE, 2001/58/CE, 2001/59/CE, 2001/60/CE, 67/548/CEE, 99/45/CE, 1907/2006:

Nature of risk: **EXTREMELY FLAMMABLE**

Symbol: **FLAMME**

Risk phrases: **EXTREMELY FLAMMABLE**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. S2 - Keep out of the reach of children. S9 - Keep container in a well-ventilated place. S16 - Keep away from sources of ignition - No smoking. S23 - Do not breathe spray. S25 - Avoid contact with eyes. S33 - Take precautionary measures against static discharges. S51 Use only in well-ventilated place.

16. OTHER INFORMATION

This product must be conserved, handled and used in according with safety and hygiene directives of well industrial practice and in according with regulation in force.

To the best of our knowledge, the information contained herein is accurate. Wherever we cannot guarantee that these informations are enough and correct to cover all cases and do not replace medical operate to which need to address for every doubt.

(¹): Following the Directive 67/548/CEE, Directive 1999/45/CE and further updated

(²): Content < 0,1 % of 1,3 Butadiene

Dated: 08.01.2012

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