

SAFETY DATA SHEET 91/155/EC (3 ATP) - ISO 11014-1

Product name :

TYRE REPAIR

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Product code nr: 77 11 222 802

Version: : 4

Review date: : 2002-10-04

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation TYRE REPAIR

Use of the substance/preparation Aerosol tyre repairs

Product code nr: 7711222802

Company/undertaking identification RENAULT S.A.
13-15, Quai le GALLO
92100 BOULOGNE BILLANCOURT CEDEX
France
Tel: (33) 1 41 04 04 04
Fax: (33) 1 34 33 68 87
Internet FDS/SDS: <http://renault.quickfds.com>

Emergency telephone UK - National Poisons Information Service Phone: 44 / 191 22 5131
B - Centre Antipoisons Tél: 070 / 245.245

2. COMPOSITION/INFORMATION ON INGREDIENTS

Preparation name: TYRE REPAIR

Formula: PA201E

Description of the preparation: Description of the preparation:: Glycol and solvents / liquefied gas extremely inflammable
Aqueous emulsion of synthetic rubbers.

3. HAZARDS IDENTIFICATION

Most important hazards: Vapour / air mixture is explosive.
Extremely flammable liquefied gas.
Heating may cause an explosion.

Specific hazards: none

4. FIRST AID MEASURES

General advice: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Take victim to fresh air, in a quiet place and if necessary take medical advice.
Half-upright position.

Skin contact: Remove contaminated clothes. Wash off immediately with soap and plenty of water.

Eye contact: Rinse thoroughly and plentifully with water, also under the eyelids.
If eye irritation persists, take medical advice.

Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

5. FIRE-FIGHTING MEASURES

suitable extinguishing media alcohol-resistant foam, carbon dioxide (CO2), powder, water spray.

extinguishing media which must not be used for safety reasons None.

Specific method(s): Cool closed containers exposed to fire with water spray.

Specific fire hazard(s): Be careful of explosion risk.
Decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required.
Fire will produce dense black smoke.

special protective equipment for fire-fighters Wear a self contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES

Personal precaution(s)	Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.
Environmental precaution(s)	Do not allow to enter drains or water courses. Relevant water authorities should be notified of any large spillage to water course or drain.
Method(s) for cleaning up	Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Clean preferably with a detergent - Avoid the use of solvents.

7. HANDLING AND STORAGE

Handling	
- Precaution(s):	When using do not smoke. Avoid contact with skin and eyes. For personal protection, see Section 8. The Manual Handling Operations Regulations may apply to the handling of containers of this product. Refer to the guide weight indicated on the container when carrying out assessments.
- Technical condition(s):	The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.
- Safe handling advice(s):	Keep the container tightly closed. Exclude sources of heat, sparks and open flame. Non- sparking tools should be used.
Storage	
- Precaution(s):	No smoking. Prevent unauthorised access.
- Storage condition(s):	Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store at temperatures between 5°C and 35°C Protect material from direct sunlight.
- Separation of incompatible product(s):	Store separately from oxidising agents and strongly alkaline and strongly acidic materials.
- Packaging / tank material:	No materials to be specially mentioned

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measure(s):	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Exposure limit values	
- Exposure limit(s):	
Exposure controls	
- Respiratory protection	No personal breathing protective equipment is normally required. Do not inhale vapour.
- Hand protection	When skin exposure may occur, advice should be sought from glove suppliers on appropriate types. gloves
- Skin protection	Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.
- Eye protection	Eye protection designed to protect against exposure to dusts should be worn when there is a likelihood of exposure.
Hygiene measure(s):	Avoid contact with the skin and the eyes. When using, do not eat, drink or smoke. Wash hands immediately after handling the product.

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9. PHYSICAL AND CHEMICAL PROPERTIES

General information	- Appearance aerosol: liquid / liquefied gas - Colour: milky white - Odour slight
Important health,safety and environmental information	- pH 9 - Boiling point/range: Not determined. - Flash point: Not applicable. - Explosion limits: propellant gas: 1,8 % - 9,5 % - Relative density (water = 1): 0,995 - Viscosity: not applicable - Water solubility: partly soluble - Fat solubility: No information available. - Solvent solubility: immiscible

10. STABILITY AND REACTIVITY

Conditions to avoid	Stable under the recommended storage and handling conditions. (See Section 7). May explode on heating.
Materials to avoid	Do not expose at temperatures above 50 °C
Hazardous decomposition products	Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide

11. TOXICOLOGICAL INFORMATION

General information(s):	There is no data available on the product itself.
Acute toxicity	
- Inhalation:	weakly dangerous
- Skin contact:	Frequent or prolonged contacts may defat and dry the skin, leading to discomfort and dermatitis.
- Eyes contact:	Liquid splashes in the eye may cause irritation.
- Ingestion:	No data available.
Toxicity of repeated or prolonged exposure:	Repeated and prolonged exposure may cause skin irritation and dermatitis due to degreasing properties of the product.

12. ECOLOGICAL INFORMATION

General information(s):	There is no data available on the product itself.
Environmental toxicity:	Ecological problems are not known or expected under normal use.
Other adverse effects	

13. DISPOSAL CONSIDERATIONS

Waste / unused products:	Can be offered for metal recovery.
Contaminated packaging:	Empty containers can be dumped according to local legislation.
Further information	

14. TRANSPORT INFORMATION

General information(s):	Transport followed ADR, IMDG, IATA UN number 1950
Land (Road / Railway: ADR/RID)	- class: 2 - item and letter: 5, F Limited quantities: LQ2 - proper shipping name: aerosol, inflammable, n o s - ADR/RID-Labels: not applicable

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IMDG (sea)	- IMO class: 2.1 - proper shipping name aerosol - EMS number: 2-13 - MFAG number: 620
ICAO/IATA (air)	- ICAO/IATA class: 2.1 - 203 - proper shipping name: aerosol, inflammable, n o s - ICAO/IATA-Labels: flammable gas

Inland waterways (ADNR)

15. REGULATORY INFORMATION

EEC number:	Not applicable.
Symbol(s):	F+ - Extremely flammable
R-phrased(s):	12 Extremely flammable.
S-phrased(s):	2 Keep out of the reach of children. 16 Keep away from sources of ignition - No smoking. 23 Do not breathe gas / fumes / vapour / spray. 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 51 Use only in well-ventilated areas.
Further information	Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

16. OTHER INFORMATION

Important remarks:	As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The user is always responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet is based on the present state of knowledge and current national legislation it provides guidance on health safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.
Use of the substance/preparation	Aerosol tyre repairs
recommended restrictions on use	The product should not be used for purposes other than those shown in Section 16 without first referring to the supplier and obtaining written handling instructions.
History	
- First edition date:	16/07/1998
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- Review date:	04/10/2002
- Version:	4
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Written by:	M EVRARD M EVRARD