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**1. Section 1. Identification of the substance/mixture and of the company/undertaking:**

- 1.1. Product identifier : **GLUE SPRAY - R 83530N (spray)**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against: Universal glue.
- 1.3. Details of the supplier of the safety data sheet:  
Identification of manufacturer/Supplier:  
RETECH, s.r.o.  
Vackova 1541/4  
150 00 Praha-5 Stodůlky  
Telephone/Fax: +420 327 596 128, +420 327 596 428  
Information: [info@retech.cz](mailto:info@retech.cz)
- 1.4. Emergency telephone number:  
RETECH Suchdol 212, Suchdol u Kutné Hory  
Tel.+420 327 596 128 (7.30-16.00 hour)  
Toxicology information number, Na bojišti 1, 128 08 PRAHA 2  
Tel. +420 224 919 293, +420 224 915 402 (24 hours a day)

**2. Section 2. Hazard identification:**

- The product is labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.  
The classification is in line with current EC lists, It is expanded, however, by information from technical literature and by information furnished by supplier companies.
- 2.1. Classification of the substance or mixture:  
Classification according to Regulation (EC) No 1272/2008:
- |                   |   |
|-------------------|---|
| Flam. Aerosol 1   | H222 Extremely flammable aerosol.                       |
| Skin Irrit. 2     | H315 Causes skin irritation.                            |
| Eye Irrit. 2      | H319 Causes serious eye irritation.                     |
| STOT SE 3         | H336 May cause drowsiness or dizziness.                 |
| Aquatic Chronic 3 | H412 Harmful to aquatic life with long lasting effects. |
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC:
- |                        |                                    |
|------------------------|------------------------------------|
| F+ Extremely flammable | R12 Extremely flammable            |
| Xi-Irritant            | R36/38 Irritating to eye and skin. |
- R52/53 Harmful to aquatic organisms, may cause long-term effects in aquatic environment.  
R67 Vaporous may cause drowsiness and dizziness.
- 2.2. Label elements:  
Labelling according to Regulation (EC) No 1272/2008:
- |   |   |
|---|---|
| GHS02   | GHS07   |
|  |  |
| DANGER  | WARNING   |
- H222 Extremely flammable aerosol.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

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Labelling according to Directive 1999/45/EC:

F+



Extremely flammable

Xi



Irritant

Special labeling of certain preparations:

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. Keep away from sources of ignition.- No smoking. Keep out of reach of children.

2.3. Other hazards:

Results of PBT and vPvB assessment:

PBT: Not applicable

vPvB: Not applicable

Buildup of explosive mixtures possible without sufficient ventilation.

### 3. Section 3. Composition/information on ingredients:

3.2. Mixtures:

Description: The active ingredient in propellants

Dangerous components:

CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum); Hydrotreated light (contains less than 0.1% benzene) F R11; Xi R38; N51/53; Xn R65; R67 GHS02 Flam. Liq. 2, H225; GHS08 Asp. Tox. 1, H304; GHS09 Aquatic Chronic 2, H411; GHS07 Skin Irrit. 2, H315; STOT SE 3, H336	10-30%
CAS: 106-97-8 EINECS: 203-448-7	Butane (containing <0,1% butadiene (203-450-8)) F+ R12 GHS02 Flam. Gas 1, H220; GHS04 Press. Gas, H280	10-30%
CAS: 74-98-6 EINECS: 200-827-9	Propane F+ R12 GHS02 Flam. Gas 1, H220; GHS04 Press. Gas, H280	10-30%
CAS: 67-64-1 EINECS: 200-662-2	Acetone F R11; Xi R36; R66,R67 GHS02 Flam. Liq. 2, H225; GHS07 Eye Irrit. 2, H319; STOT SE 3 H336; EUH066	10-30%
CAS: 75-28-3 EINECS: 200-857-2	Isobutan F+ R12 GHS02 Flam. Gas 1, H220; GHS04 Press. Gas, H280	5-10%

Additional information: For the wording of the listed risk phrases refer to section 16.

### 4. Section 4. First aid measures:

4.1. Description of first aid measures:

After inhalation: Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

After skin contact: Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Make sure to remove any contact lenses from the eyes before

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rinsing.  
After swallowing: Do not induce vomiting; Rinse mouth thoroughly with water and give large amounts of water to people not unconscious. Call for medical help immediately.  
Most important symptoms and effects, both acute and delayed: In case of unconsciousness place patient stable in side position for transportation.  
Indication of any immediate medical attention and special treatment needed: No further relevant information available.

**5. Section 5. Fire fighting measures:**  
5.1. Suitable extinguishing agents: CO<sub>2</sub>, extinguishing powder or alcohol resistant foam.  
For safety reasons unsuitable extinguishing agents: Water jet.  
5.2. Special hazards arising from the substance or mixture:  
Can form explosive gas-air mixtures.  
Formation of toxic gases is possible during heating or in case of fire.  
5.3. Advice for firefighters: Wear protective equipment/clothing when fighting fires.  
Aerosols may explode when overheated.  
Cool the container with water.

**6. Section 6. Accidental release measures:**  
6.1. Personal precautions, protective equipment and emergency procedures:  
Wear protective equipment see Section 8.2. Ensure adequate ventilation. Let evaporate. Keep unprotected person away. Keep away from ignition sources. Avoid sparks, flames, heat and smoking.  
6.2. Environmental precautions:  
Do not allow product to reach sewage system, surface or ground water.  
Inform respective authorities in case of seepage into water course or sewage system.  
6.3. Methods and material for containment and cleaning up:  
Ensure adequate ventilation.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to Section 13.  
6.4. Reference to other sections:  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment  
See Section 13 for disposal information.

**7. Section 7. Handling and storage:**  
7.1. Information for safe handling: Ensure good ventilation/exhaustion at the workplace.  
Information about protection against explosions and fires: Beware: Container is pressurized. Keep away from direct sun exposure and temperatures over 50°C.  
Do not open by force or throw into fire even after use.  
Do not spray on flames or red-hot objects.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
7.2. Conditions for safe handling, including any incompatibilities:  
Requirements to be met by storerooms and containers: Store in cool location.  
Observe official regulations on storing packaging with pressurized containers.  
Information about storage in one common storage facility: Observe official regulations on storing packaging with pressurized containers.  
Do not store together with strong acids, strong oxidising agents and strong mineral acids.  
Further information about storage conditions: Store in cool, dry conditions.  
Protect from heat and direct sunlight.  
7.3. Specific end use(s): No further relevant information available.

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**8. Section 8. Exposure controls and personal protection:**

8.1 Control parameters:

Components with limit values that require monitoring at the workplace:

67-64-1 Acetone

WEL Short-term value: -

Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm

106-97-8 butane (containing < 0.1% butadiene (203-450-8))

WEL Short-term value: 1810 mg/m<sup>3</sup>, 750 ppm

Long-term value: 1450 mg/m<sup>3</sup>, 600 ppm

Carc (if more than 0.1% of buta-1.3-diene)

74-98-6 Propane

WEL Short-term value: 3600 mg/cm<sup>3</sup>, 2000 ppm

Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppm

75-28-5 Isobutane (GB)

WEL Short-term value: 600 ppm

Long-term value: 800 ppm

64742-49-0 Naphtha (petroleum) – Long-term value: 315 ppm

Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls:

Eye protection: Tightly sealed goggles or face shield.

Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation. In case of brief exposure or low pollution use respiratory filter device-filter AX/P2. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands: Protective gloves

Protection of skin: Protective working clothes.

8.3. General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Ensure good ventilation/exhaustion at the workplace.

**9. Section 9. Physical and chemical properties:**

Appearance:

form: Aerosol

colour: Yellow

Odour threshold: After solvent (Acetone)

Value pH: Not determined

Melting point/freezing point: Not determined

Melting point/freezing point: Not determined

Initial boiling point/boiling range: Not determined

Flash point: Not determined

Evaporation rate: Not determined

Flammability (solid,gas): Not determined

Explosive properties: Product is not explosive. However, formation of explosive air/steam mixtures is possible.

Upper/lower flammability or explosive limits:

Explosion limits: lower (% Vol): 0.8

upper (% Vol): 9.0

Vapour pressure (at 20°C): Not determined

Vapour density (at 20 °C): Not determined

Relative density: 0.820 g/cm<sup>3</sup>

Solubility in/miscibility with

- water Insoluble in water.

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<p>9.2. Other information: VOC: 538 g/l</p>	<p>Partition coefficient (n-octanol/water): Not determined Auto-ignition temperature: Not determined Decomposition temperature: Not determined Viscosity: Not determined Oxidative properties: Not determined</p>
<p><b>10. Section 10. Stability and reactivity:</b></p> <p>10.1. Reactivity: No further relevant information available. 10.2. Chemical stability: No further relevant information available. 10.3. Possibility of hazardous reactions: Strong oxidising agents, strong alkalis, strong mineral acids. 10.4. Conditions to avoid: There are known no conditions to avoid. 10.5. Incompatible materials: There are known no incompatible materials. 10.6. Hazardous products of decomposition: Fire creates: Vapours/ gases/ fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).</p>	
<p><b>11. Section 11. Toxicological information:</b></p> <p>11.1 Information on toxicological effects: Acute toxicity: 67-64-1 acetone Oral LD50 5800 mg/kg (rat) Dermal LD50 20000 mg/kg (rbt) 106-97-8 Butan Inhalative LC50/4h 658 mg/l (rat) Irritation: on the skin: Irritant to skin. Prolonged or repeated exposure may cause severe irritation. Acts as defeating agent on skin. May cause cracking of skin, and eczema. May cause allergic contact eczema. on the eye: Irritating effect. May cause chemical eye burns. Corrosivity: Not corrosive. Sensitization: No sensitizing effect known. Repeated dose toxicity: No further relevant information available. Carcinogenicity: No further relevant information available. Mutagenicity: No further relevant information available. Toxicity for reproduction: No further relevant information available. Other information: Inhalation: May cause irritation to the respiratory system. Vapours may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system. Irritating to respiratory system. Ingestion: May cause discomfort if swallowed. May cause stomach pain or vomiting. Gastrointestinal symptoms, including upset stomach.</p>	
<p><b>12. Section 12. Ecological information:</b></p> <p>Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system.</p> <p>12.1. Toxicity: No further relevant information available. 12.2. Persistence and degradability: No further relevant information available. 12.3. Bioaccumulative potential: No further relevant information available. 12.4. Mobility in soil: No further relevant information available. 12.5. Results of PBT and vPvB assessment: PBT: Not applicable vPvB: Not applicable 12.6. Other adverse effects: No further relevant information available.</p>	
<p><b>13. Section 13. Disposal considerations:</b></p> <p>13.1 Waste treatment methods: Product: Must not be disposed together with household garbage. Do not</p>	

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Uncleaned packagings: allow product to reach sewage system.  
Disposal must be made according to official regulations.

**14. Section 14. Transport information:**

- 14.1. Land transport:  
ADR/RID-GGVs/E class: 2 Gases.  
Number/Letter: 5F  
Danger code (Kemler): Not determined  
Number UN: 1950  
Tunnel restriction code: D  
Description of goods: Aerosols
- 14.2. Maritime transport:  
IMDG-class: 2.1  
Page: -  
Number UN: 1950  
Packaging group: -  
EMS-group: F-D,S-U  
Marine pollutant: No  
Proper shipping name: Aerosols
- 14.3. Air transport:  
ICAO / IATA -class: 2.1  
UN/ID number: 1950  
Packaging group: -  
Proper shipping name: Aerosols, flammable  
UN "Model Regulation": UN1950; AEROSOLS; 2.1  
Special precautions for users - Warning: Gases  
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

**15. Section 15. Regulatory information:**

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:  
Labeling according to law line:  
The product has been labeled in accordance with EC Directives / relevant national laws.  
Danger of determining components and mark to labelling:  
74-98-6/106-97-8 Propane/Butane, 67-64-1 – Acetone, 64742-49-0 Naphtha (petroleum), hydrotreated light
- Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after burn. Do not spray on a naked flame or any incandescent material.

Labelling hazardousness:



F+ - Extremely flammable



Xi - Irritant

Numbers and word reading associated hazard R-sentences :

- R 12 Extremely flammable.  
R 36/38 Irritating to eyes and skin.  
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R 67 Vapours may cause drowsiness and dizziness.

Numbers and word reading associated security S-sentences:

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- S 2 Keep out of reach of children.
- S 16 Keep away from sources of ignition – No smoking.
- S 23 Do not breathe vapours/aerosol.
- S 37/39 Wear suitable protective clothing and eye/face protection.
- S 38 In case of insufficient ventilation, wear suitable respiratory equipment.
- S 46 If swallowed, seek medical advice immediately and show this container or label.
- S 51 Use only in well-ventilated areas.
- S 56 Dispose of this material and its container at hazardous or special waste collection point.

On the packaging there is not included info in accordance with European Regulation No 1999/45/EC (chapter 2.5.).

Used legislation:

- European Regulation (EC) No 1907/2006 – REACH.
- Commission Regulation (EU) No 453/2010.
- European Regulation No 67/548EEC and 1999/45/EC.
- Commission Regulation (EC) No 1272/2006 – CLP.
- Commission Regulation (EC) No 790/2009.
- Regulation (EC) No 648/2004 (detergents).

15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16. Section 16. Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relative R+H phrases:

- R 11 Highly flammable.
- R 12 Extremely flammable.
- R 36 Irritating to eyes.
- R 38 Irritating to skin.
- R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 65 Harmful: May cause lung damage if swallowed.
- R 66 Repeated exposure may cause skin dryness or cracking.
- R 67 Vapours may cause drowsiness and dizziness.
- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects
- EUH066 Repeated exposure may cause skin dryness or cracking.

Abbreviations and acronyms:

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

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GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)  
WEL- Workplace exposure limits  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

**\*Compared to the last version the data has been changed.**