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Reviewed on:	<b>GLUE SPRAY</b>	Version: 1.0

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

- 1.1. Product identifier: **GLUE SPRAY - R 83530N**
- 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: +420 327 596 128  
Fax: +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:**

- 2.1. Classification of the substance or mixture:  
Classification according to Regulation (EC) No 1272/2008 [CLP]:  
Flam. Aerosol 1 H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
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 eyes and skin.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R67 Vapours may cause drowsiness and dizziness.

- 2.2. Label elements:  
Labelling according to Regulation (EC) No 1272/2008 [CLP]:



Signal word: Danger

## Hazard statements:

- H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

## Precautionary statements:

- P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P251 Do not pierce or burn, even after use.  
P271 Use only outdoors or in a well-ventilated area.  
P261 Avoid breathing vapours/spray.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P313 Get medical advice/attention.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.  
P501 Dispose of contents/container in accordance with national regulation.

- 2.3. Other hazards:  
Results of PBT and vPvB assessment:  
PBT: Not applicable  
vPvB: Not applicable

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

- 3.2. Mixtures:  
Description of the mixture: Active substance with propellant

Hazardous ingredients:

CAS: 67-64-1 EINECS: 200-662-2	Acetone F, R11; Xi, R36; R66; R67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; EUH066	10-30 %
CAS: 106-97-8 EINECS: 203-448-7	Butane (containing < 0.1 % 1,3-butadiene) F, R12 Press. Gas, H280; Flam Gas 1, H220	10-30 %
CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha (containing < 0.1 % benzene) F, R11; Xn, R65; Xi, R38; N, R51/53 Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315	10-30 %
CAS: 74-98-6 EINECS: 200-827-9	Propane F, R12 Press. Gas, H280; Flam Gas 1, H220	10-30 %
CAS: 75-28-5 EINECS: 200-857-2	Isobutane F+, R12 Press. Gas, H280; Flam. Gas 1, H220	5-10 %

For full text of H-statements and R-phrases: see 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.  
Keep the affected person warm and at rest.  
If breathing is irregular or stopped administer artificial respiration.  
Get prompt medical attention.  
After skin contact: Immediately wash with water and soap and rinse thoroughly.  
If symptoms persist, consult a doctor.  
After eye contact: Rinse eyes for several minutes under running water, holding the eyelid open.  
Make sure to remove any contact lenses from the eyes before rinsing.  
If symptoms persist, consult a doctor.  
After swallowing: Do not induce vomiting.  
Rinse mouth with plenty of water and drink large amount of water or milk if the person is not unconscious.  
Call for a doctor immediately.  
4.2. Most important symptoms and effects, both acute and delayed:  
No further relevant information available.  
4.3. Indication of any immediate medical attention and special treatment needed:  
No further relevant information available.

**5. Section 5. Firefighting measures:**

- 5.1. Extinguishing media:  
Suitable extinguishing agents: Extinguishing powder, sand, dry chemicals, dolomite etc., water spray, fog or mist.

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For safety reasons unsuitable extinguishing agents:

No further relevant information available.

5.2. Special hazards arising from the substance or mixture:

Aerosol cans may explode in a fire.

5.3. Advice for firefighters:

Wear protective clothing and self-contained breathing apparatus.

Containers close to fire should be removed or cooled with water.

Use water to keep fire exposed containers cool and disperse vapours.

**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.

Keep away from source of ignition.

6.2. Environmental precautions:

Do not allow to enter sewage system, surface or ground water.

6.3. Methods and material for containment and cleaning up:

Let evaporate.

Ensure adequate ventilation.

Keep out of confined spaces because of explosion risk.

If leakage can not be stopped, evacuate area.

Dispose 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. Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Avoid spilling.

Avoid contact with skin and eyes.

Avoid breathing vapours.

Use approved respirator if air contamination is above accepted level.

Measures to prevent fire:

Keep away from heat, sparks and open flame.

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

7.2. Conditions for safe storage including any incompatibilities:

Technical measures and storage conditions:

Observe official regulations on storing packagings with pressurized containers.

Requirements for storage rooms and vessels:

Observe official regulations on storing packagings with pressurized containers.

Further information on storage conditions:

Protect from heat and direct sunlight.

7.3. Specific end use(s):

No further relevant information available.

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

8.1. Control parameters:

Components with limit values that require monitoring at the workplace:

WEL: EH40/2005

CAS	Substance	Long-term (8-hr TWA ref. period)		Short-term (15 minute ref. period)		Comments
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
67-64-1	Acetone	500	1210	1500	3620	
106-97-8	Butane	600	1450	750	1810	Carc, (only applies if Butane contains more than 0.1 % of buta-1,3-diene)
75-28-5	Isobutane	800		800		

OEL: 2000/39/EG, 2006/15/EG, 2009/161/EG

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CAS	Name of agent	Eight hours mg/m <sup>3</sup>	Short-term ppm mg/m <sup>3</sup>	Notation ppm
67-64-1	Acetone	1210	500	
Additional information: The lists that were valid during the compilation were as basis.				
8.2.	Exposure controls:			
	Measures to prevent exposure:			
		Ensure good ventilation/exhaustion at the workplace.		
	Personal protection equipment:			
	Breathing equipment: No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Use chemical cartridge protection with appropriate cartridge.			
	Eye protection: Safety goggles or safety shield			
	Protection of hands: Protective gloves			
	Protection of skin: Protective suit			
	General protective and hygienic measures:			
	Do not eat, drink or smoke during the work.			
	Wash hands before breaks and at the end of work.			
	Immediately remove all soiled and contaminated clothing.			

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

9.1. Information on basic physical and chemical properties:

Appearance:

Form: Aerosol

Colour: Yellow

Odour: Solvent-like (acetone)

Odour threshold: Not determined

Value pH: 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: Not determined

Explosive limits:

lower: 0.8 Vol %

upper: 9.0 Vol %

Vapour pressure at 20°C: Not determined

Vapour density at 20 °C: Not determined

Density at 20°C: Not determined

Relative density: Not determined

Solubility in/miscibility with:

- water Insoluble.

Partition coefficient (n-octanol/water):

Ignition temperature: Not determined

Decomposition temperature: Not determined

Self-igniting: Not determined

Viscosity: Not determined

Oxidising properties: Not determined

9.2. Other information: No further relevant information available.

**10. Section 10. Stability and reactivity:**

10.1. Reactivity: No further relevant information available.

10.2. Chemical stability: Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions: No further relevant information available.

10.4. Conditions to avoid: Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidizing agents, strong alkalis and strong mineral acids.

10.5. Incompatible materials: No further relevant information available.

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10.6. Hazardous decomposition products:

In case of fire can be released: Vapours/gases/fumes of carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

**11. Section 11. Toxicological information:**

11.1. Information on toxicological effects:

Acute toxicity:	No further relevant information available.
Irritation: Skin:	Prolonged or repeated exposure may cause severe irritation. Acts as a defatting agent on skin. May cause cracking of skin and eczema. May cause sensitisation by skin contact.
Eyes:	Irritating to skin. Irritating to eyes. 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:	Has a narcotizing effect. 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.

**12. Section 12. Ecological information:**

12.1. Toxicity:	
Aquatic 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.
Additional ecological information:	
General notes:	Dangerous for the environment if discharged into watercourses.
12.5. Results of PBT and vPvB assessment:	
PBT:	Not applicable
vPvB:	Not applicable
12.6. Other adverse effects:	No further relevant information available.




**13. Section 13. Disposal considerations:**

13.1. Waste treatment methods:	
Product:	Dispose in safe manner in accordance with local/national regulation.
Uncleaned packagings:	Disposal must be made according to official regulations.

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

14.1. UN number:	
ADR/RID/ADN, IMDG,	1950
ICAO	
14.2. UN proper shipping name:	
ADR	AEROSOLS
IMDG	AEROSOLS
ICAO	AEROSOLS

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14.3. Transport hazard class(es): ADR/RID/ADN	
Class	2 Gases
Hazard label	2.1
IMDG	
Class	2.1
Hazard label	2.1
ICAO	
Class	2.1
Hazard label	2.1
14.4. Packing group: ADR/RID/ADN, IMDG, ICAO	Not applicable
14.5. Environmental hazards: Marine pollutant:	No
14.6. Special precautions for user:	Warning: Gases
Danger Code (Kemler):	-
EMS Number:	F-D, S-U
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable
Tunnel restriction code	D

<b>15. Section 15. Regulatory information:</b>
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:
Used legislation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended Directive 67/548/EEC and Directive 1999/45/EC on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances, as amended Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP), as amended Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended
15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

<b>16. Section 16. Other information:</b>
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.)
Relevant R-phrases and H-statements (Section 3): R11 Highly flammable. R12 Extremely flammable. R36 Irritating to eyes. R38 Irritating to skin. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 Harmful: May cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking. R67 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.

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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  
ICAO International Civil Aviation Organization  
GHS Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS European Inventory of Existing Commercial Chemical Substances  
CAS Chemical Abstracts Service (division of the American Chemical Society)  
OEL Occupational Exposure Limit  
WEL Workplace exposure limits  
BMGV Biological monitoring guidance values  
STEL Short-term exposure limit  
TWA Time-Weighted Average  
EC50 Effective concentration, 50 percent  
LC50 Lethal concentration, 50 percent  
LD50 Lethal dose, 50 percent  
DNEL Derived No-Effect Level  
PNEC Predicted No-Effect Concentration  
LOEC Lowest Observed Effect Concentration  
NOEC No Observed Effect Concentration  
PBT Persistent Bioaccumulative Toxic  
vPvB Very Persistent, Very Bioaccumulative  
VOC Volatile Organic Compounds  
MAL-Code Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

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.

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