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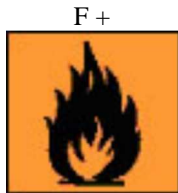
**1. Identification of substance, company:**

- 1.1. Identification of substance: **AL - SPRAY 02.004 (spray)**  
 1.2. Application of the substance/the preparation: Aluminum spray application  
 1.3. Identification of manufacturer/Supplier:  
 RETECH, s.r.o.  
 Vackova 1541/4  
 150 00 Praha-5 Stodůlky  
 Telephone/Fax: +420 327 596 128, +420 596 428  
 Information: [hana.mekotova@retech.cz](mailto:hana.mekotova@retech.cz)  
 1.4. Telephone number for RETECH Suchdol 212, Suchdol u Kutné Hory  
 extraordinary situations: 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. 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.

- 2.1. Hazard designation:



Extremely flammable



Irritant

- 2.2. Information pertaining to particular dangers for man and environment:

Extremely flammable  
 Irritating to eyes.  
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 Repeated exposure may cause skin dryness or cracking.  
 Vapours may cause drowsiness and dizziness.

- 2.3. Additional information:

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.  
 Buildup of explosive mixtures possible without sufficient ventilation.  
 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.

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

- 3.1. Description:

Mixture of the substances listed below with harmless additions.

- 3.2. Dangerous components:

Chemical name	Contents(%)	Number CAS	Number ES	Cautionary symbol	R sentences
Acetone	25-50	67-64-1	200-662-2	Xi, F	R 11-36-66-67
Propane	10-25	74-98-6	200-827-9	F+	R 12
Butane	10-25	106-97-8	203-448-7	F+	R 12
Solvent naphtha (petroleum),	2.5-10	64742-95-6	265-199-0	Xn, N	R 10-37-51/53-65-

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light arom. (contains less than 0.1% benzene)					66-67
Xylene (mix)	2.5-10	1330-20-7	215-535-7	Xn	R 10-20/21-38

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

**4. First aid measures:**

- 4.1. After inhalation: Supply fresh air; consult doctor in case of symptoms.  
 4.2. After skin contact: Generally the product does not irritate the skin.  
 4.3. After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
 4.4. After swallowing: Do not induce vomiting; call for medical help immediately.  
 4.5. General information: -

**5. Fire fighting measures:**

- 5.1. Suitable extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
 5.2. For safety reasons unsuitable extinguishing agents: Water with full jet.  
 5.3. Protective equipment: No special measures required.  
 5.4. Special hazards caused by the material, its products of combustion or resulting gases: -  
 5.5. Additional information: Aerosols may explode when overheated. Cool the container with water.

**6. Accidental release measures:**

- 6.1. Person-related safety precautions: Wear protective equipment see item 8.2. Keep unprotected person away.  
 6.2. Measures for environmental protection: Do not allow to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.  
 6.3. Measures for cleaning/collecting: Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
 6.4. Additional information: -

**7. Handling and storage:**

- 7.1. Handling:  
 Information for safe handling: Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.  
 Information about protection against explosions and fires: 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. Do not spray onto a naked flame or any incandescent material.
- 7.2. Storage:  
 Requirements to be met by storerooms and containers: Store in cool location. Observe official regulations on storing packagings with pressurized containers.  
 Information about storage in one common storage facility: No required.  
 Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

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Protect from heat and direct sunlight.

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

- 8.1. Validate parameter:  
Components with limit values that require monitoring at the workplace:  
67-64-1 acetone (EU)  
OES Short-term value: -  
Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm  
106-97-8 butane (GB)  
OES Short-term value: 1810 mg/m<sup>3</sup>, 750 ppm  
Long-term value: 1450 mg/m<sup>3</sup>, 600 ppm  
1330-20-7 xylene (mix)(EU)  
OES Short-term value: 442 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 221 mg/m<sup>3</sup>, 50 ppm  
Additional information: The lists that were valid during the compilation were used as basis.
- 8.2. Personal protective equipment:  
Eye protection: Tightly sealed goggles.  
Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Use suitable respiratory protective device in case of insufficient ventilation.  
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.

**9. Physical and chemical properties:**

- Form: Aerosol  
Colour: According to product specification  
Odour: Characteristic
- 9.1. Melting point/Melting range: Not determined  
Boiling point/Boiling range: -44°C  
Flash point: -97°C  
Inflammability (strength, gas form) 365.0°C  
Self-inflammability: Product is not self igniting.  
Danger of explosion: Product is not explosive. However, formation of explosive air/steam mixtures is possible.  
Explosion limits: lower (% Vol): 0.7  
upper (% Vol): 13.0  
Vapor pressure (at 20°C): 3.5 bar  
Density at 20 °C 0.720 g/cm<sup>3</sup>  
Solubility in/Miscibility with  
- water Not miscible or difficult to mix.
- 9.2. Solvent content:  
Organic solvents: 93.0 %  
Solids content: 7.0 %  
VOC: 669,6 g/l

**10. Stability and reactivity:**

- 10.1. Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.  
10.2. Materials to be avoided: -  
10.3. Dangerous reactions: No dangerous reaction known.  
10.4. Dangerous products of decomposition: No dangerous decomposition products known.

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**11. Toxicological information:**

- 11.1. Acute toxicity:  
LD/LC50 values relevant for classification:
- 67-64-1 acetone  
Oral LD50 5800 mg/kg (rat)  
Dermal LD50 20000 mg/kg (rbt)
- 64742-95-6 Solvent naphtha (petroleum), light arom.  
Oral LD50 >6800 mg/kg (rat)  
Dermal LD50 >3400 mg/kg (rab)  
Inhalative LC50/4h >10.2 mg/l (rat)
- 1330-20-7 xylene (mix)  
Oral LD50 8700 mg/kg (rat)  
Dermal LD50 2000 mg/kg (rbt)  
Inhalative LC50/4h 6350 mg/l (rat)
- 11.2. Primary irritant effect:  
on the skin: Irritant may be possible.  
on the eye: Irritating effect.  
Sensitization: No sensitizing effects known.  
Additional toxicological information: -

**12. Ecological information:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

**13. Disposal considerations:**

- 13.1. Product: Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- 13.2. Uncleaned packagings: Disposal must be made according to official regulations.

**14. Transport information:**

- 14.1. Land transport:  
ADR/RID-GGVS/E class: 2 Gases.  
Number/Letter: 5F  
Danger code (Kemler): 23  
Number UN: 1950  
Description of goods: Aerosols
- 14.2. Maritime transport:  
IMDG-class: 2.1  
Page: 2102  
Number UN: 1950  
Packaging group: -  
EMS-group: F-D,S-U  
Marine pollutant: Yes  
Proper shipping name: Aerosols
- 14.3. Air transport:  
ICAO / IATA -class: 2.1  
UN/ID number: 1950  
Packaging group: -  
Proper shipping name: Aerosols, flammable

**15. Regulatory information:**

- 15.1. Labeling according to law line:  
The product has been labeled in accordance with EC Directives / relevant national laws.

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Danger of determining components and mark to labelling:  
67-64-1 – Acetone, 106-97-8 – Butane, 74-98-6 Propane

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 Irritating to eyes.
- R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 66 Repeated exposure may cause skin dryness or cracking.
- R 67 Vapours may cause drowsiness and dizziness.

Numbers and word reading associated security S-sentences:

- 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 24/25 Avoid contact with skin and eyes.
- S 51 Use only in well-ventilated areas.
- S 56 Dispose of this material and its container at hazardous or special waste collection point.

15.2. Used legislation:

European Regulation (EC) No 1907/2006 - REACH  
Regulation (EC) No 648/2004 of the European Parliament and of the council of 31 March 2004 on detergents

**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-phrases:

- R 10 Flammable.
- R 11 Highly flammable.
- R 12 Extremely flammable.
- R 20/21 Harmful by inhalation and in contact with skin.
- R 36 Irritating to eyes.
- R 37 Irritating to respiratory system.
- 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.