



Date of issue: 17.5.2011	Trade name:	Page: 1/6
Reviewed on:	<b>TOP CUT</b>	Version: 1.0

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

- 1.1. Product identifier : **TOP CUT - 02.0048 (spray)**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against: Cutting oil
- 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.
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC:  
F+ Extremely flammable R12 Extremely flammable.
- 2.2. Label elements:  
Labelling according to Regulation (EC) No 1272/2008:  
GHS02  
  
DANGER  
H222 Extremely flammable aerosol.
- Labelling according to Directive 1999/45/EC:  
F+  
  
Extremely flammable  
R12 Extremely flammable.
- 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 the reach of children.
- 2.3. Other hazards:  
Results of PBT and vPvB assessment:

Date of issue: 17.5.2011	Trade name:	Page: 2/6
Reviewed on:	<b>TOP CUT</b>	Version: 1.0

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: 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	10-25%
CAS: 74-98-6 EINECS: 200-827-9	Propane F+ R12 GHS02 Flam. Gas 1, H220; GHS04 Press. Gas, H280	10-25%

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: Supply fresh air; consult doctor in case of symptoms.  
After skin contact: Remove soaked clothing, wash skin with water and soap.  
After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.  
After swallowing: Rinse mouth; Do not induce vomiting; Consult a physician.  
Most important symptoms and effects, both acute and delayed: No further relevant information available.  
Indication of any immediate medical attention and special treatment needed: No further relevant information available.

**5. Section 5. Fire fighting measures:**

5.1. Extinguishing media:

Suitable extinguishing agents: Carbon dioxide (CO<sub>2</sub>), fire-extinguishing powder, water haze or alcohol resistant foam.  
For safety reasons unsuitable extinguishing agents: Water with a full water jet.

5.2. Special hazards arising from the substance or mixture:

No further relevant information available.

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, keep away from ignition sources. Keep unprotected persons away.

6.2. Environmental precautions:

The product may not be spilled in effluent water.

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 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.

Date of issue: 17.5.2011	Trade name:	Page: 3/6
Reviewed on:	<b>TOP CUT</b>	Version: 1.0

**7. Section 7. Handling and storage:**

- 7.1. Information for safe handling: Keep away from heat and direct sunlight.  
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: Observe official regulations on storing packaging with pressurized containers.  
Requirements to be met by storerooms and containers: Observe official regulations on storing packaging with pressurized containers.  
Information about storage in one common storage facility: Store in cool, dry location.  
Protect from heat and direct sunlight.  
Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.
- 7.3. Specific end use(s): No further relevant information available.

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

- 8.1. Control parameters:  
Components with limit values that require monitoring at the workplace:  
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  
Additional information: The lists that were valid during the compilation were as basis.
- 8.2. Exposure controls:  
Eye protection: Safety goggles.  
Breathing equipment: Not required, but ensure adequate ventilation when using the product.  
Protection of hands: Protective gloves.  
Protection of skin: Protective working clothing.
- 8.3. General protective and hygienic measures: The usual precautionary measures should be adhered to general rules for handling chemicals. Wash hand after each work period and before eating.

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

- 9.1. Information on basic physical and chemical properties:  
Appearance:  
form: Aerosol  
colour: According to product specification  
Odour threshold: Characteristic  
Value pH: Not determined  
Melting point/freezing point: Not determined  
Initial boiling point/boiling range: -44°C  
Flash point: -97°C  
Evaporation rate: Not determined  
Flammability (solid,gas): 365°C  
Explosive properties: Product is not explosive. However, formation of explosive air/steam mixtures is possible.

Date of issue: 17.5.2011	Trade name:	Page: 4/6
Reviewed on:	<b>TOP CUT</b>	Version: 1.0


<p>Upper/lower flammability or explosive limits:</p> <p>Explosion limits: lower (% Vol): 1.5% upper (% Vol): 10.9%</p> <p>Vapour pressure (at 20°C): 4 Bar</p> <p>Vapour density (at 20 °C): Not determined</p> <p>Relative density: 0.761 g/cm<sup>3</sup></p> <p>Solubility in/miscibility with - water: Not miscible or difficult to mix</p> <p>Partition coefficient (n-octanol/water): Not determined</p> <p>Auto-ignition temperature: Not determined</p> <p>Decomposition temperature: Not determined</p> <p>Viscosity: Not determined</p> <p>Oxidative properties: Not determined</p> <p>9.2. Other information:</p> <p>Organic solvents: 30.0%</p> <p>VOC: 228.3 g/l</p>	
<p><b>10. Section 10. Stability and reactivity:</b></p> <p>10.1. Reactivity: No further relevant information available.</p> <p>10.2. Chemical stability: No further relevant information available.</p> <p>10.3. Possibility of hazardous reactions: No dangerous reactions known.</p> <p>10.4. Conditions to avoid: No further relevant information available.</p> <p>10.5. Incompatible materials: No further relevant information available.</p> <p>10.6. Hazardous products of decomposition: No dangerous decomposition products known.</p>	
<p><b>11. Section 11. Toxicological information:</b></p> <p>11.1 Information on toxicological effects:</p> <p>Acute toxicity: Not.</p> <p>Irritation: on the skin: No irritant effect. on the eye: No irritating effect.</p> <p>Corrosivity: Not corrosive.</p> <p>Sensitization: No sensitizing effect known.</p> <p>Repeated dose toxicity: No further relevant information available.</p> <p>Carcinogenicity: No further relevant information available.</p> <p>Mutagenicity: No further relevant information available.</p> <p>Toxicity for reproduction: No further relevant information available.</p> <p>Other information: No data.</p>	
<p><b>12. Section 12. Ecological information:</b></p> <p>Water hazard class: slightly hazardous for water.</p> <p>Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.</p> <p>12.1. Toxicity: No further relevant information available.</p> <p>12.2. Persistence and degradability: No further relevant information available.</p> <p>12.3. Bioaccumulative potential: No further relevant information available.</p> <p>12.4. Mobility in soil: No further relevant information available.</p> <p>12.5. Results of PBT and vPvB assessment: PBT: Not applicable vPvB: Not applicable</p> <p>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:</p> <p>13.1. Product: Must not be disposed together with household garbage. Do not allow product to reach sewage system.</p> <p>13.2. Uncleaned packagings: Disposal must be made according to official regulations.</p>	

Date of issue: 17.5.2011	Trade name:	Page: 5/6
Reviewed on:	<b>TOP CUT</b>	Version: 1.0

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

- 14.1. Land transport:  
ADR/RID-GGVs/E class: 2  
Number/Letter: 5F  
Danger code (Kemler): -  
Number UN: 1950  
Limited quantities (LQ) LQ2  
Transport category 2  
Tunnel restriction code D  
Description of goods: Aerosols
- 14.2. Maritime transport:  
IMDG-class: 2.1  
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:  
Labelling 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 Propane, 106-97-8 Butane
- 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.  
Dispose of container and collection of hazardous waste.
- Labelling hazardousness:
-  F+ - Extremely flammable
- Numbers and word reading associated hazard R-sentences :  
R 12 Extremely flammable.
- 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 / spray.  
S 46 If swallowed, seek medical advice immediately and show this container or label.  
S 51 Use only in well-ventilated areas.

Date of issue: 17.5.2011	Trade name:	Page: 6/6
Reviewed on:	<b>TOP CUT</b>	Version: 1.0

On the packaging there is not included info in accordance with European Regulation No 1999/45/EC (article Nr.10, 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).

National regulations:

Danish MAL Code 1-1

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 12 Extremely flammable.  
H220 Extremely flammable gas.  
H280 Contains gas under pressure; may explode if heated.

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)  
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.**