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

1.1. Product identifier:

Trade name: **TOP CUT**
Product code: **1 02.0048**

1.2. Relevant identified uses of the substance or mixture and uses advised against:

Uses of the mixture: Cutting oil.
Uses advised against: Not known.

Sector of use category (SU):

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

Process category (PROC):

PROC7 Industrial spraying
PROC11 Non industrial spraying

Environmental release category (ERC):

ERC8a Wide dispersive indoor use of processing aids in open systems
ERC8d Wide dispersive outdoor use of processing aids in open systems

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 number/Fax: +420 327 596 128, +420 327 596 428

E-mail: info@retech.cz

1.4. Emergency telephone number: RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic

Telephone number: +420 327 596 128 (7.30-16.00 hour)
Toxikologické informační středisko (Toxicology information centre),
Na bojišti 1, 128 08 PRAHA 2, Czech Republic
Telephone number: +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]:
Aerosol 1 H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

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.

Precautionary Statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
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.
P211 Do not spray on an open flame or other ignition source.
P271 Use only outdoors or in a well-ventilated area.
P261 Avoid breathing mist/vapours/spray.

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P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P403 Store in a well-ventilated place.
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: Mixture of active ingredients with propellants

Hazardous ingredients:

CAS: 106-97-8	Butane (contains < 0,1 % butadiene)	10 -< 25 %
EINECS: 203-448-7	Flam. Gas 1, H220; Press. Gas, H280	
Reg. No.: 01-2119474691-32		
CAS: 74-98-6	Propane	10 -< 25 %
EINECS: 200-827-9	Flam. Gas 1, H220; Press. Gas, H280	
Reg. No.: 01-2119486944-21		

For full text of H-statements: see SECTION 16.

4. Section 4. First aid measures:

- 4.1. Description of first aid measures:
General notes: When in doubt or if symptoms are observed, get medical advice.
After inhalation: Move affected person to fresh air.
Get medical attention if any discomfort continues.
After skin contact: Generally the product does not irritate the skin.
After eye contact: Rinse opened eye for several minutes under running water.
Remove contact lenses, if present and easy to do. Continue rinsing.
Get medical attention if any discomfort continues.
After swallowing: Do not induce vomiting.
Immediately call a doctor.
- 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. Fire fighting measures:

- 5.1. Extinguishing media:
Suitable extinguishing agents: Carbon dioxide (CO₂), extinguishing powder, water spray, alcohol resistant foam.
Unsuitable extinguishing agents: Water jet.
- 5.2. Special hazards arising from the substance or mixture:
No further relevant information available.
- 5.3. Advice for firefighters:
Wear protective clothing and self-contained breathing apparatus.

6. Section 6. Accidental release measures:

- 6.1. Personal precautions, protective equipment and emergency procedures:
Wear protective equipment, see Section 8.
Keep unprotected person away.
Ensure adequate ventilation.
- 6.2. Environmental precautions:
Do not allow to enter sewage system, surface or ground water.
Inform respective authorities in case product reaches water course or sewage system.

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- 6.3. Methods and material for containment and cleaning up:
 Ensure adequate ventilation.
 Do not flush with water or aqueous cleansing agents.
 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:
 Protective measures: Wear protective equipment, see Section 8.
 Ensure good ventilation/exhaustion at the workplace.
 Open and handle receptacle with care.
- Measures to prevent fire: 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:
 Requirements for storage rooms and vessels:
 Store in cool, dry conditions in well sealed receptacles.
 Observe official regulations on storing packagings with pressurized containers.
- Technical measures and storage conditions:
 Store in a cool place.
 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 (United Kingdom): EH40/2005

CAS	Substance	Long-term (8-hr TWA ref. period)		Short-term (15 minute ref. period)		Comments
		ppm	mg/m ³	ppm	mg/m ³	
106-97-8	Butane	600	1450	750	1810	Carc, (only applies if Butane contains more than 0.1 % of buta-1,3-diene)

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

- 8.2. Exposure controls:
 Technical measures to prevent exposure:
 Ensure good ventilation/exhaustion at the workplace.
- General protective measures: Wash hands before breaks and at the end of work.
- Personal protection equipment:
 Respiratory protection: Respiratory protection usually not required with adequate ventilation.
 In case of inadequate ventilation wear suitable respiratory protection with filter, class AX/P2.
 During intensive or longer exposure use self-contained breathing apparatus.
- Eye protection: Tightly sealed goggles.
- Hand protection: Protective gloves
 The final selection of the glove material must be carried out on the basis of penetration times, permeation rates and degradation.
 Solvent resistant gloves
 Recommenden material of gloves: nitrilrubber
 Penetration time of glove material:

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Skin protection: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Protective clothing.

9. Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:

Form: Aerosol.
 Colour: Colourless.
 Odour: Odourless.
 Odour threshold: Not determined
 Value pH at 20 °C: 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): Not determined
 Explosive properties: The product is not explosive. However, formation of explosive air/steam mixtures is possible.
 Explosive limits:
 – lower: 1.5 Vol %
 – upper: 10.9 Vol %
 Vapour pressure at 20°C: 4 Bar
 Vapour density at 20 °C: Not determined
 Density at 20°C: 0.761 g/cm³
 Relative density: Not determined
 Solubility in/miscibility: Water: Not miscible or difficult to mix.
 Partition coefficient (n-octanol/water): Not determined
 Ignition temperature: 365 °C
 Decomposition temperature: Not determined
 Self-ignition temperature: Product is not selfigniting.
 Viscosity: Not determined
 Oxidising properties: Not determined

9.2. Other information:
 VOC: 228.3 g/l
 Organic solvent: 30.0 %

10. Section 10. Stability and reactivity:

10.1. Reactivity: No further relevant information available.
 10.2. Chemical stability: No decomposition if used according to specifications.
 10.3. Possibility of hazardous reactions: No dangerous reactions known.
 10.4. Conditions to avoid: No further relevant information available.
 10.5. Incompatible materials: No further relevant information available.
 10.6. Hazardous decomposition products: No dangerous decomposition products known.

11.* Section 11. Toxicological information:

11.1. Information on toxicological effects:
 Acute toxicity: Based on available data, the classification criteria are not met.
 Skin corrosion/irritation: Based on available data, the classification criteria are not met.
 Serious eye damage/irritation: Based on available data, the classification criteria are not met.
 Respiratory or skin sensitization: Based on available data, the classification criteria are not met.
 Germ cell mutagenicity: Based on available data, the classification criteria are not met.
 Carcinogenicity: Based on available data, the classification criteria are not met.

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Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.
Other information:	No further relevant information available.



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:	Not regarded as dangerous for 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 disposal:	Must not be disposed together with household garbage. Do not allow product to reach sewage system. European Waste Catalogue: 16 03 05* organic wastes containing hazardous substances (*hazardous waste)
Packagings disposal:	Disposal must be made according to official regulations. European Waste Catalogue: 15 01 11* metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers (*hazardous waste)
Other disposal recommendations:	Disposal must be made according to official regulations. The final decisions on the appropriate waste management method, in line with regional, national and European legislation, and possible adaptation to local conditions, remains the responsibility of the waste treatment operator.

14. Section 14. Transport information:

14.1. UN number:	
ADR, IMDG, IATA	UN 1950
14.2. UN proper shipping name:	
ADR	1950 AEROSOLS
IMDG	AEROSOLS
IATA	AEROSOLS, flammable
14.3. Transport hazard class(es):	
ADR	
Class	2 5F Plyny
Hazard label	2.1
IMDG, IATA	
Class	2.1
Hazard label	2.1
14.4. Packing group:	
ADR, IMDG, IATA	Void.

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- 14.5. Environmental hazards:
Marine pollutant: No
- 14.6. Special precautions for user: Warning: gases
EMS Number: F-D, S-U
Danger Code (Kemler): -
- 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:
Not applicable
- ADR
Tunnel restriction code: D
UN "Model Regulation": UN 1950, AEROSOLS, 2.1

15.* Section 15. Regulatory information:

- 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, as amended (REACH)
Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, as amended (CLP)
Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended
Commission Decision 2000/532/EC establishing a list of wastes, as amended
Council Directive 89/686/EEC on the approximation of the laws of the Member States relating to personal protective equipment, as amended
Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended
Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values
Commission Directive 2009/161/EU establishing a third list of indicative occupational exposure limit values
Directive 2004/42/CE of the European Parliament and of the Council on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC, as amended

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

16.* Section 16. Other information:

Relevant H-statements (Section 3):

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)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
VOC: Volatile Organic Compounds
CAS: Chemical Abstracts Service (division of the American Chemical Society)
WEL: Workplace exposure limits
EINECS: European Inventory of Existing Commercial Chemical Substances
Reg.nr.: Registration number
PBT: Persistent, Bioaccumulative, Toxic
vPvB: Very Persistent, Very Bioaccumulative
Aerosol 1: aerosol, category 1
Flam. Gas 1: Flammable gas, category 1
Press. Gas: Gases under pressure

The information contained herein is based on our best knowledge and the present legislation. Further, the Safety Data Sheet has been elaborated on the basis of the original Safety Data Sheet provided by the manufacturer.

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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.

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