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

- 1.1. Product identifier : **CERAMIC – new 1 05.0004**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against: High-temperature lubricant
- 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.  
STOT SE 3 H336 May cause drowsiness or dizziness.  
Aquatic Chronic 2 H411 Toxic 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 R38 Irritating to skin.  
N-Dangerous for the environment R51/53 Toxic 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



DANGER

GHS07



WARNING

GHS09



H222 Extremely flammable aerosol.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

Labelling according to Directive 1999/45/EC:

F+



Extremely flammable

Xi



Irritant

N



Dangerous for the Environment

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- R 12 Extremely flammable.  
R 38 Irritating to skin.  
R 51/53 Toxic to aquatic organisms, may cause long-term effects in aquatic environment.  
R 67 Vaporous may cause drowsiness and dizziness.

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: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	Butane (containing <0,1% butadiene (203-450-8)) F+ R12 GHS02 Flam. Gas 1, H220; GHS04 Press. Gas, H280	25-<50%
CAS: 142-82-5 EINECS: 205-563-8	n-heptane F R11; Xi R38; N R50/53; Xn R65 R67 GHS02 Flam. Liq. 2, H225; GHS08 Asp. Tox. 1, H304; GHS09 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; GHS07 Skin Irrit. 2, H315; STOT SE 3, H336	10-<25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.:01-2119486944-21	Propane F+ R12 GHS02 Flam. Gas 1, H220; GHS04 Press. Gas, H280	10-<25%
CAS: 108-87-2 EINECS: 203-624-3	Methylcyclohexane F R11; Xi R38; N R51/53; 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	2.5-<10%
CAS: 68411-46-1 EINECS: 270-128-1	Alkylated Diphenylamines N R51/53 GHS09 Aquatic Chronic 2, H411	0.1-<1%
CAS: 110-82-7 EINECS: 203-806-2	Cyclohexane F R11; Xi R38; N R50/53; Xn R65 R67 GHS02 Flam. Liq. 2, H225; GHS08 Asp. Tox. 1, H304; GHS09 Aquatic Chronic 1, H410; GHS07 Skin Irrit. 2, H315; STOT SE 3, H336	0.1-<1%

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. Keep the affected person warm and at rest. Get medical attention if any discomfort continues.
- After skin contact: Instantly remove any clothing soiled by the product, immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist,

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consult doctor.  
After swallowing: Do not induce vomiting, rinse mouth with water and drink plenty of water. Seek for medical advice immediately. Do not give water if the person is unconscious.  
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. 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 full jet.  
5.2. Special hazards arising from the substance or mixture:  
Information not 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. Keep unprotected person away. Ensure adequate ventilation, keep away from ignition sources.  
6.2. Environmental precautions:  
Do not allow to enter drainage system, surface or ground water.  
Inform respective authorities in case product reaches water 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 od 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:  
Information about protection against explosions and fires: Ensure good ventilation/exhaustion at the workplace.  
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.  
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.

**8. Section 8. Exposure controls and personal protection:**  
8.1. Control parameters:



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9.2. Other information:  
Organic solvents: 71.6%  
Solids content: 25.1%  
VOC: 715.8 g/l

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

10.1. Reactivity: No further relevant information available.  
10.2. Chemical stability: No further relevant information available.  
10.3. Possibility of hazardous reactions: No dangerous reactions known.  
10.4. Conditions to avoid: There are known no conditions to avoid.  
10.5. Incompatible materials: No further relevant information available.  
10.6. Hazardous products of decomposition: No dangerous decomposition products known.

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

11.1. Acute toxicity:  
\* Irritation: on the skin: Irritant to skin and mucous membranes.  
on the eye: No irritant effect.  
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: No data.

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

12.1. Toxicity:  
Ecotoxicological effects:  
Aquatic toxicity:  
142-82-5 n-Heptane  
EC50 (24h) >10 mg/l (Daphnia Magma)  
LC50 (48h) 4924 mg/l (Fish)  
108-87-2 methylcyclohexane  
LC50 (48h) 5 mg/l (Fish)  
Water hazard class 2 (German Regulation). (Self-assessment): Hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for fish  
Toxic for aquatic organism.  
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.

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

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

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

14.1. Land transport:

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	ADR/RID-GGVSE class:	2 5F Gases
	Danger code (Kemler):	Information not available
	Packaging group:	Void
	Number UN:	1950
	Hazard label:	2.1
	Description of goods:	Aerosols
	Remarks:	"Limited quantities", LQ2
	Special marking:	Symbol (fish and tree)
	Transport category:	2
	Tunnel restriction code	D
14.2.	Maritime transport:	
	IMDG-class:	2.1
	Number UN:	1950
	Packaging group:	Void
	EMS-group:	F-D,S-U
	Marine pollutant:	YES
	Special marking:	Symbol (fish and tree)
	Proper shipping name:	Aerosols
14.3.	Air transport:	
	ICAO / IATA -class:	2.1
	UN/ID number:	1950
	Packaging group:	Void
	Proper shipping name:	Aerosols, flammable
	UN "Model Regulation":	UN1950; AEROSOLS; ENVIRONMENTALLY HAZARDOUS; 2.1
		Product contains environmentally hazardous substances: Heptane
	Special precautions for users - Waring:	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:

74-98-6/106-97-8 – Propane/Butane, 142-82-5 n-Heptane

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.



F+ - Extremely flammable



Xi- Irritant



N- Dangerous for the environment

Numbers and word reading associated hazard R-sentences :

R 12 Extremely flammable

R 38 Irritating to skin.

R 51/53 Toxic to aquatic organisms, may cause long-term effects in aquatic environment.

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/spray.

S 24 Avoid contact with skin .

S 46 If swallowed, seek medical advice immediately and show this container or label.

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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.).

Density: 0,661g/cm<sup>3</sup>

VOC: 495,8 g/l

National regulations:

Danish MAL Code 3-3

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 38 Irritating to skin.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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 67 Vapours may cause drowsiness and dizziness.

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 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.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

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.**