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1. Section 1. Identification of the substance/mixture and of the company/undertaking:	
1.1. Product identifier: CERAMIC – 1 05.0004	
1.2. Relevant identified uses of the substance or mixture and uses advised against: High-temperature lubricant	
Sectors of use:	
SU21 Consumer uses: Private households (= general public = consumers)	
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)	
SU3 Industrial uses: Uses of substances as such or in preparations* at industrial sites	
Product category:	
PC24 Lubricants, greases, release products	
Process categories:	
PROC11 Non industrial spraying	
PROC7 Industrial spraying	
Environmental release category:	
ERC8a Wide dispersive indoor use of processing aids in open systems	
ERC8d Wide dispersive outdoor use of processing aids in open systems	
Application of the substance / the mixture: 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	
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.	
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.	
Skin Irrit. 2 H315 Causes skin 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 R38 Irritating to skin.	
N Dangerous for the environment R51/53 Toxic 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]:	
GHS02 GHS07 GHS08	
  	
Signal word: Danger	

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Hazard statements:

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement:

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.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor/.../if you feel unwell.
P331 Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
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.

Supplemental Hazard information: -

Contained dangerous substances:

Koolwaterstoffen, C7-C9, n-alkanen, isoalkanen, cyclische

Regulation (EC) No 648/2004: Aliphatic hydrocarbons ≥ 30%

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: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	Butane (contains < 0.1 % butadiene (203-450-8)) F+ R12 Flam. Gas 1, H220; Press. Gas, H280	25-<50%
EC number: 927-510-4 Reg.nr.: 01-2119475515-33	Koolwaterstoffen, C7-C9, n-alkanen, isoalkanen, cyclische F R11; Xn R65; Xi R38; N R51/53; R67 Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	20-<25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	Propane F+ R12 Flam. Gas 1, H220; Press. Gas, H280	10-<25%
CAS: 68411-46-1 EINECS: 270-128-1	Alkylated Diphenylamines N R51/53 Aquatic Chronic 2, H411	0.3-<1%

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<p>For full text of H-statements and R-phrases: see SECTION 16.</p> <p>Regulation (EC) No 648/2004 on detergents: Aliphatic hydrocarbons \geq 30%</p>		
<p>4. Section 4. First aid measures:</p> <p>4.1. Description of first aid measures:</p> <p>After inhalation: Supply fresh air. Consult a doctor in case of symptoms. In case of unconsciousness place patient stably in side position for transportation.</p> <p>After skin contact: Immediately wash with water and soap and rinse thoroughly.</p> <p>After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.</p> <p>After swallowing: Do not induce vomiting. Rinse mouth with plenty of water. Call for a doctor immediately.</p> <p>4.2. Most important symptoms and effects, both acute and delayed: No further relevant information available.</p> <p>4.3. Indication of any immediate medical attention and special treatment needed: No further relevant information available.</p>		
<p>5. Section 5. Fire fighting measures:</p> <p>5.1. Extinguishing media: Suitable extinguishing agents: Water haze, fire-extinguishing powder, carbon dioxide, alcohol resistant foam. For safety reasons unsuitable extinguishing agents: Water with full jet.</p> <p>5.2. Special hazards arising from the substance or mixture: No further relevant information available.</p> <p>5.3. Advice for firefighters: Wear protective clothing and self-contained breathing apparatus.</p>		
<p>6. Section 6. Accidental release measures:</p> <p>6.1. Personal precautions, protective equipment and emergency procedures: Wear protective equipment see Section 8.2. Keep unprotected persons away. Ensure adequate ventilation.</p> <p>6.2. Environmental precautions: Do not allow to enter sewage system, surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.</p> <p>6.3. Methods and material for containment and cleaning up: Ensure adequate ventilation. Dispose contaminated material as waste according to Section 13.</p> <p>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.</p>		
<p>7. Section 7. Handling and storage:</p> <p>7.1. Information for safe handling: Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.</p> <p>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.</p> <p>7.2. Conditions for safe handling, including any incompatibilities:</p> <p>Technical measures and storage conditions: Observe official regulations on storing packagings with pressurized containers.</p> <p>Requirements for storage rooms and vessels: Store in a cool location. Observe official regulations on storing packagings with pressurized containers.</p>		

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Further information on storage conditions:	Keep receptacle tightly sealed. 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:

WEL (EH40/2005):

	Long-term (8h TWA)	Short-term (STEL)	
106-97-8 Butane	1450 mg/m ³ 600 ppm	1810 mg/m ³ 750 ppm	*Carc (if more than 0.1% of buta-1.3-diene)

* Sk - Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

DNELs

Koolwaterstoffen, C7-C9, n-alkanen, isoalkanen, cyclische

Oral DNEL Long term-systemic 149 mg/kg bw/day (Consumer)

Dermal DNEL Long term-systemic 149 mg/kg bw/day (Consumer)

300 mg/kg bw/day (Worker)

Inhalativ DNEL Long term-systemic 477 mg/m³ (Consumer)

2085 mg/m³ (Worker)

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

8.2 Exposure controls:

Personal protection equipment:

Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation. In case of brief exposure or low pollution use respiratory filter device (filter AX/P2). In case of intensive or longer exposure use self-contained respiratory protective device.

Eye protection: Tightly sealed goggles

Protection of hands: Solvet resistant gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves: Nitrile rubber, NBR

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Protection of skin: Protective suit.

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases/ fumes /aerosols.

Avoid contact with the eyes and skin.

9. Section 9. Physical and chemical properties:

Appearance:

Form: Aerosol

Colour: Light grey

Odour: Characteristic

Odour threshold: Not determined

Value pH: Not determined

Melting point/freezing point: Not determined

Boiling point/boiling range: -44 °C

Flash point: -97 °C

Evaporation rate: Not applicable

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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:	
	Ecotoxic effects:	Remark: Toxic for fish.
	Additional ecological information:	
	General notes:	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 aquatic organisms
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. 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, IMDG, IATA	UN1950
14.2.	UN proper shipping name:	
	ADR	1950 AEROSOLS
	IMDG	AEROSOLS
	IATA	AEROSOLS, FLAMMABLE
14.3.	Transport hazard classes:	
	ADR	
	Class	2 5F Gases
	Hazard label	2.1
	IMDG	
	Class	2.1
	Hazard label	2.1
	IATA	
	Class	2.1
	Hazard label	2.1
14.4.	Packaging group:	
	ADR, IMDG, IATA	Void.
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

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Transport/ Additional information: ADR Limited quantities (LQ) 1L Transport category 2 Tunnel restriction code D UN "Model Regulation": UN1950, AEROSOLS, 2.1
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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 (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

National regulations: Danish MAL Code 5-3

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.

Relevant R-phrases and H-statements:

R11 Highly flammable.
 R12 Extremely flammable.
 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.
 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.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H336 May cause drowsiness or dizziness.
 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
 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)
 MAL-Code Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
 WEL Workplace exposure limits
 OEL Occupational Exposure Limit
 STEL Short-term exposure limit

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TWA Time-Weighted Average
LC50 Lethal concentration, 50 percent
LD50 Lethal dose, 50 percent
EC50 Effective concentration, 50 percent
BMGV - Biological monitoring guidance values
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

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.**