

1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier:**Trade name: **Anti-Seize Keramik****1.2. Relevant identified uses of the substance or mixture and uses advised against:**

Use of the substance

/Mixture: lubricant

1.3. Details of the supplier of the safety data sheet:

WINKEL GmbH
Lisztstraße 1
53881 Euskirchen - Germany
Tel.: +49 2251 77 69 400-401
Fax: +49 2251 77 69 402
E-Mail: info@winkelgroup.de
Internet: www.winkelgroup.de

1.4. Emergency telephone number:

Guide to health risks:

Consult with your physician or doctor on immediately duty. In the case of life threat call 112.

2. Hazard identification**2.1. Classification of the substance or mixture:****Classification (EC) 1272/2008**

Aerosol 1; H222, H229
Asp. Tox. 1; H304
Skin Irrit. 2; H315,
STOT SE 3; H336,
Aquatic Chronic 3; H412

2.2. Label elements:**Label elements (CLP)**

Signal word: Danger

Hazard statements:

H222 Extremely flammable aerosol.
H229 Pressurized container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P302 + P352 IF ON SKIN: Wash with plenty of water/...
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container to accordance with local / regional / national / international regulations.

Contains: Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic



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Text for labelling:

/

2.3. Other hazards:

No data available.

3. Composition/information on ingredients

Substance:

Mixture:

Chemical name:	Content (% m/m):	CAS: EC: Index:	Classification (1272/2008/EC):
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	2,5 – 10	/ 927-510-4 /	Flam. Liq. 2; H225, Asp. Tox. 1; H304, Skin Irrit. 2; H315, STOT SE 3; H336, Aquatic Chronic 2; H411
Propane	10 – 25	74-98-6 200-827-9 601-003-00-5	Flam. Gas. 1; H220, Press. Gass; H280
Isobutane	25 – 50	75-28-5 200-857-2 601-004-00-0	Flam. Gas. 1; H220, Press. Gass; H280

4. First aid measures

4.1. Description of first measures:

- General advice: remove contaminated clothing.
- If inhaled: remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
- In case of skin contact: remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.
- In case of eye contact: Flush eyes with water while holding eyelids open. Rest eyes for 30 minutes. If redness, burning, blurred vision, or swelling persist, transport to the nearest medical facility for additional treatment.
- If swallowed: If swallowed, do not induce vomiting; transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

4.2. Most important symptoms and effects, both acute and delayed:

Drowsiness and dizziness. Irritation and dermatitis, weakness.

4.3. Identification of any immediate medical attention and special treatment needed:

No data available.

5. Firefighting measures

5.1. Extinguishing media:

Suitable extinguishing media: Foam, water spray or fog. Dry chemical powder, carbon dioxide.

Unsuitable extinguishing media: Water jet.

5.2. Special hazards arising from the substance or mixture:



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Specific hazards during firefighting: Exposure to decomposition products may cause health problems. Possible in case of fire / high temperatures the formation of hazardous / toxic fumes.

5.3. Advice for firefighters:

Special protective equipment for firefighters: In the event of fire, self-contained breathing apparatus. Personal protective equipment.

Other information: Standard procedure for chemical fires. Fighting measures that suit the environment. Explosion and fire fumes do not breathe. Use water spray to cool unopened containers. Collect contaminated firefighting water separately, do not empty into drains. Fire residues and contaminated firefighting water must be disposed in according to local regulations. Pay attention to flashback. Because of the high vapour pressure when heated bursting of the vessels.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Refer to protective measures listed in sections 7 and 8 Personal protective equipment. Remove all sources of ignition. Avoid contact with eyes and skin. Ensure adequate ventilation, especially in confined spaces. Avoid inhalation of vapours or mists. Himself against vapours accumulating to form explosive concentrations, beware. Vapours may accumulate in low lying areas.

6.2. Environmental precautions:

Do not flush into surface water or sanitary sewer. Prevent further leakage or spillage if possible without risk. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up:

Contain spilled liquid with sand, earth or other suitable absorbents. Recover free liquid in suitable containers. Clean contaminated area. Dispose of according to local regulations.

6.4. Reference to other sections:

See section: 7, 8, 11, 12 and 13.

7. Handling and storage

7.1. Precautions for safe handling:

Advice on safe handling: Inventory levels at the workplace must be restricted. Use only in well ventilated areas. Vapours and spray mists. Avoid contact with eyes and skin. Do not spray on a naked flame or any incandescent material. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour exposure limits. Measures against electrostatic discharges. Personal protective equipment see section 8

Advice on protection against fire and explosion: Normal measures for preventive fire protection. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from heat and ignition sources. Do not smoke. Sparking tools. Electrical equipment should be protected to the appropriate standards.

7.2. Conditions for safe storage, including any incompatibilities:

Requirements for storage areas and containers: Store in original container. CAUTION: Aerosol are under pressure. Keep away from direct sunlight and temperatures above 50 ° C. Do not apply force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep container tightly closed in a dry, cool and well ventilated place. Storage regulations for aerosols!

Storage class: 2B, Aerosols

7.3. Specific en use(s):

No data available.

8. Exposure controls/personal protection

8.1. Control parameters:

8.1.1. Limits for occupational exposure

Components	CAS-No.	Control parameters		Excess factor	Base
		ml/m ³	mg/m ³		



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		(ppm)			
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	/	200	1.000	4	
Propane	74-98-6	1.000	1.800	4	
Isobutane	75-28-5	1.000	2.400	4	
n-Butane	106-97-8	1.000	2.400	4	

8.1.2. DNEL-and PNEC-values

Substance	Type	Type of exposure	Exposure time	Value
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	DNEL (workers)	Inhalation	Long term exposure – systemic effects	2085 mg/m ³
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	DNEL (workers)	dermal	Long term exposure – systemic effects	300 mg/kg bw/day
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	DNEL (consumer)	inhalation	Long term exposure – systemic effects	447 mg/m ³
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	DNEL (consumer)	dermal	Long term exposure – systemic effects	149 mg/kg bw/day
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	DNEL (consumer)	oral	Long term exposure – systemic effects	149 mg/kg bw/day

8.2. Exposure controls:

Technical protective equipment:

Provide sufficient air exchange and / or exhaust in work rooms.

Personal protective equipment:

Respiratory protection:

At concentrations above the exposure limit they must use respiratory protection. Respirator with combination filter for particles and vapours (EN 141). Respirator with A filter.

Hand protection:

Solvent resistant gloves according to EN 374 Glove material: nitrile rubber. Breakthrough time (maximum wearing period):> 480 min und with thickness 0,5 mm. The manufacturer of the protective gloves on permeability and breakthrough time are observed.

Eye protection:

Tightly fitting safety goggles.

Protective clothing:

Flame retardant antistatic protective clothing. Choose body protection according to the amount and concentration of the hazardous substance at the workplace.

Hygien measures:

Handle with good industrial hygiene and safety practice. General industrial hygiene measures. Do not breathe spray. Contact with skin, eyes and clothing. When using do not eat, drink or smoke. Wash hands before breaks and after work. Skin protection plan note. Wash contaminated clothing before reuse.

Environmental exposure controls:

General advice: Do not flush into surface water or sanitary sewer. Further leakage or spillage if possible without risk. If the product contaminates rivers and lakes or drains inform respective authorities.

9. Physical and chemical properties

9.1. Information on basis physical and chemical properties:

	Value	Unit	At	Method	Notice
Appearance:	aerosol				
Colour:	white				
Odour:	characteristic				
Flash point:	Ca. -80	°C			Isobutane
Lower explosion limit:	1,40	Vol. %			Isobutane
Upper explosion limit:	10,80	Vol. %			Propane
Density:	1,4	g/cm ³			



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Water solubility: insoluble
Organic solvent 11 %

9.2. Other information:

No data available.

10. Stability and reactivity

10.1. Reactivity:

No data available.

10.2. Chemical stability:

The product is chemical stable.

10.3. Possibility of hazardous reactions:

No decomposition if stored and applied. Vapours may form explosive mixtures with air. Because of the high vapour pressure when heated bursting of the vessels.

10.4. Conditions to avoid:

Heat, flames and sparks.

10.5. Incompatible materials:

No data available.

10.6. Hazardous decomposition products:

Hazardous decomposition products: Possible in case of fire / high temperatures the formation of hazardous / toxic fumes.

11. Toxicological information

Acute toxicity:

Acute oral toxicity:

Hydrocarbons, C7, n-alkanes, LD₅₀ > 8 ml/kg (rat)
iso-alkanes, cyclic

Acute inhalation toxicity:

Hydrocarbons, C7, n-alkanes, LC₅₀ > 23,3 mg/l (rat, 4 h)
iso-alkanes, cyclic

Acute dermal toxicity:

Hydrocarbons, C7, n-alkanes, LD₅₀ > 4 ml/kg (rat)
iso-alkanes, cyclic

Skin corrosion/irritation: Cause irritation.

Serious eye damage/eye irritation: May cause irritation.

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive and developmental toxicity: No data available

Other information: Drowsiness and dizziness. Irritation and dermatitis, weakness.

12. Ecological information

12.1. Toxicity:

Toxicity to fish:

Hydrocarbons, C7, n-alkanes, LL/EL/IL50 >1 - <= 10 mg/l



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iso-alkanes, cyclic_

Toxicity to Daphnia:

Hydrocarbons, C7, n-alkanes, LL/EL/IL50 >1 - <= 10 mg/l
iso-alkanes, cyclic

Toxicity to algae:

Hydrocarbons, C7, n-alkanes, LL/EL/IL50 >10 - <= 100 mg/l
iso-alkanes, cyclic

Toxicity to bacteria:

Hydrocarbons, C7, n-alkanes, LL/EL/IL50 >10 - <= 100 mg/l
iso-alkanes, cyclic

12.2. Persistence and degradability:

No data available.

12.3. Bioaccumulative potential:

No data available.

12.4. Mobility in soil:

No data available.

12.5. Results of PBT- and vPvB assessment:

No data available.

12.6. Other adverse effects:

The penetration of the product into drains, water courses or the soil should be prevented.

13. Disposal considerations

13.1. Product:

Waste key number: 160504* = Accumulators containing certain dangerous gases in pressurized containers.
* = The disposal must be provided.

Recommendation: Do not open, even after use or burn.
Disposal according to official regulations.

13.2. Packaging:

Waste key number: 150110 = Packaging containing residues of hazardous substances or contaminated by dangerous substances

Recommendation: Drain thoroughly and completely as possible.
Disposal according to official regulations.

14. Transport information

ADR

UN number: 1950
Product designation: AEROSOLS
Class: 2
Packaging group: --
Code: 5F
Label: 2.1
Limited quantities: 1 L
Tunnel restriction code: (D)
Environmentally hazardous: no

RID

UN number: 1950
Product designation: AEROSOLS



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Revision date: 23.11.2017

Class: 2
Packaging group: --
Code: 5F
Label: 2.1
Hazard identification No. 23
Limited quantities: LQ2

Tunnel restriction code: (D)

Special precautions for user:

See chapter: 6, 7 and 8

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

Council Directive		Quantity 1	Quantity 2
(2012/18/EC):	P3a FLAMMABLE AEROSOLS	150 t (net)	500 t (net)
VOC (Directive 1999/13/EG):	VOC: 473 g/l = 63 %		

15.2. Chemical safety assessment:

No data available.

16. Other information

Full text of H-statements referred to under sections 2 and 3:

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.

Changes:

- Item 2