

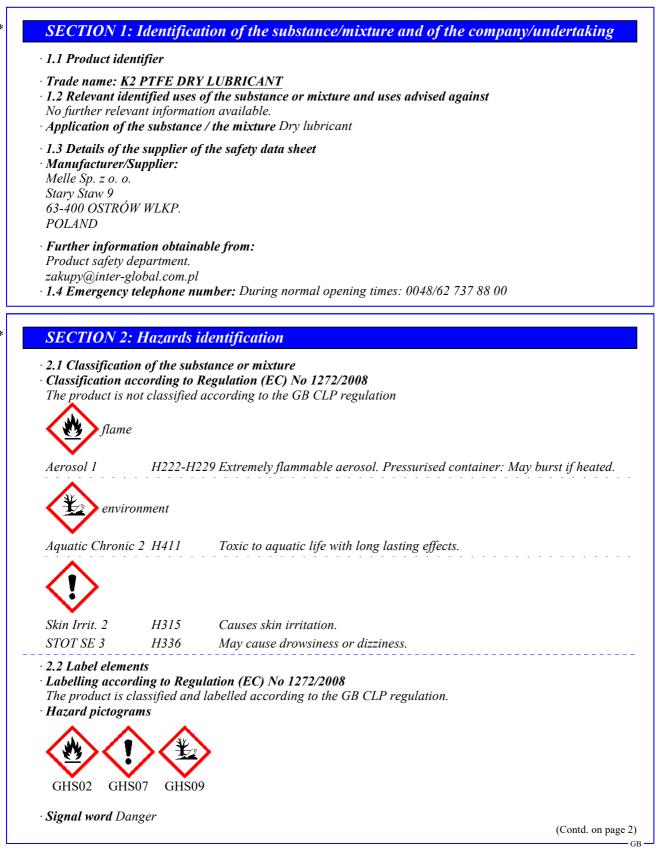
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Safety data sheet according to 1907/2006/EC, Article 31

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Trade name: K2 PTFE DRY LUBRICANT

(Contd. of page 1) · Hazard-determining components of labelling: pentane Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics propan-2-ol · Hazard statements H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H411 Toxic 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. P260 Do not breathe mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C. P501 Dispose of contents/container to a waste container. · 2.3 Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

• Description: Mixture: consisting of the following components.

 Dangerous components: 		
CAS: 106-97-8	butane, pure	<30%
EINECS: 203-448-7	🚸 Flam. Gas 1A, H220; Press. Gas (Comp.), H280	
CAS: 109-66-0	pentane	<30%
EINECS: 203-692-4 Reg.nr.: 01-2119459286-30-XXXX	♦ Flam. Liq. 2, H225; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♦ STOT SE 3, H336, EUH066	
CAS: 74-98-6	propane	<30%
EINECS: 200-827-9	🚸 Flam. Gas 1A, H220; Press. Gas (Comp.), H280	
EC number: 927-510-4	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	<30%
Reg.nr.: 01-2119475515-33-XXXX	♦ Flam. Liq. 2, H225; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ↑ Skin Irrit. 2, H315; STOT SE 3, H336, EUH066	
CAS: 75-28-5	isobutane	<15%
EINECS: 200-857-2	🚸 Flam. Gas 1A, H220; Press. Gas (Comp.), H280	
CAS: 67-63-0	propan-2-ol	<10%
EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-XXXX	🔅 Flam. Liq. 2, H225; 🔅 Eye Irrit. 2, H319; STOT SE 3, H336	
• Additional information: For the we	ording of the listed hazard phrases refer to section 16.	

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SECTION 4: First aid measures

• 4.1 Description of first aid measures

• General information:

Take affected persons out into the fresh air. Personal protection for the First Aider.

• *After inhalation: Supply fresh air; consult doctor in case of complaints.*

• After skin contact: Generally the product does not irritate the skin.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing: If symptoms persist consult doctor.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

 \cdot 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

• 5.1 Extinguishing media

• Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.

· For safety reasons unsuitable extinguishing agents: Water with full jet

• 5.2 Special hazards arising from the substance or mixture No further relevant information available.

• 5.3 Advice for firefighters

• Protective equipment: No special measures required.

• Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

• 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

• 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.

• 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

· Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

Pressurised 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.

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· 7.2 Conditions for safe storage, including any incompatibilities

• Storage:

• *Requirements to be met by storerooms and receptacles:* Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

· Information about storage in one common storage facility: Not required.

• Further information about storage conditions:

Keep container tightly sealed.

Do not seal receptacle gas tight.

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.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

- 106-97-8 butane, pure
- WEL Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm

Carc (if more than 0.1% of buta-1.3-diene)

109-66-0 pentane

WEL Long-term value: 1800 mg/m³, 600 ppm

67-63-0 propan-2-ol

WEL Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm

• Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

• Appropriate engineering controls No further data; see item 7.

- · Individual protection measures, such as personal protective equipment
- 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.

- Avoid contact with the eyes and skin. • **Respiratory protection:** Not required.
- · Kespiratory protect
- Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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· 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.

· Eye/face protection

Tightly sealed goggles

SECTION 9: Physical and chemical properties • 9.1 Information on basic physical and chemical properties · General Information · Physical state Aerosol · Colour: Colourless · Odour: Characteristic · Odour threshold: Not determined. • *Melting point/freezing point:* Undetermined. · Boiling point or initial boiling point and boiling range Not applicable, as aerosol. · Flammability Not applicable. · Lower and upper explosion limit · Lower: Not determined. · Upper: Not determined. · Flash point: Not applicable, as aerosol. · Decomposition temperature: Not determined. Not determined. · pH · Viscosity: · Kinematic viscosity Not determined. · Dynamic: Not determined. · Solubility Fully miscible. · water: Not determined. · Partition coefficient n-octanol/water (log value) Not determined. · Vapour pressure: · Density and/or relative density Not determined. · Density: · Relative density Not determined. · Vapour density Not determined. • 9.2 Other information · Appearance: · Form: Aerosol · Important information on protection of health and environment, and on safety. • Auto-ignition temperature: Product is not selfigniting. Product is not explosive. However, formation of • Explosive properties: explosive air/vapour mixtures are possible. · Change in condition Not applicable. · Evaporation rate · Information with regard to physical hazard classes · Explosives Void (Contd. on page 6)

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Flammable gases	Void
Aerosols	Extremely flammable aerosol. Pressurised container:
	May burst if heated.
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flamm	able
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: 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.

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

• Acute toxicity

Inhalative LC50/4 h >23.3 mg/l (rat) (OECD403) 67-63-0 propan-2-ol 5,045 mg/kg (rat)	Inhalative	LC50/4 h	658 mg/l (rat)
Dermal LD50 >2,920 mg/kg (rat) (OECD402) Inhalative LC50/4 h >23.3 mg/l (rat) (OECD403) 67-63-0 properture 5,045 mg/kg (rat) Dermal LD50 5,045 mg/kg (rat) 12,800 mg/kg (rabbit) 22,000 mg/kg (rabbit)	Hydrocarb	ons, C7, n	-alkanes, isoalkanes, cyclics
Inhalative LC50/4 h >23.3 mg/l (rat) (OECD403) 67-63-0 propan-2-ol Oral LD50 5,045 mg/kg (rat) Dermal LD50 12,800 mg/kg (rabbit) 12,800 mg/kg (rabbit)	Oral	LD50	>5,840 mg/kg (rat) (OECD401)
67-63-0 propan-2-ol Oral LD50 5,045 mg/kg (rat) Dermal LD50 12,800 mg/kg (rabbit)	Dermal	LD50	>2,920 mg/kg (rat) (OECD402)
Oral LD50 5,045 mg/kg (rat) Dermal LD50 12,800 mg/kg (rabbit)	Inhalative	LC50/4 h	>23.3 mg/l (rat) (OECD403)
Dermal LD50 12,800 mg/kg (rabbit)	67-63-0 pr	opan-2-ol	
	Oral	LD50	5,045 mg/kg (rat)
Inhalative LC50/4 h 30 mg/l (rat)	Dermal	LD50	12,800 mg/kg (rabbit)
	Inhalative	LC50/4 h	30 mg/l (rat)
	STOT-sing	gle exposu	
• STOT-single exposure May cause drowsiness or dizziness.			(Contd. on page

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• 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability The product is biodegradable. Degree of biodegradation> 70%
- · 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 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- Remark: Toxic for fish
- Additional ecological information:
- · General notes:
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

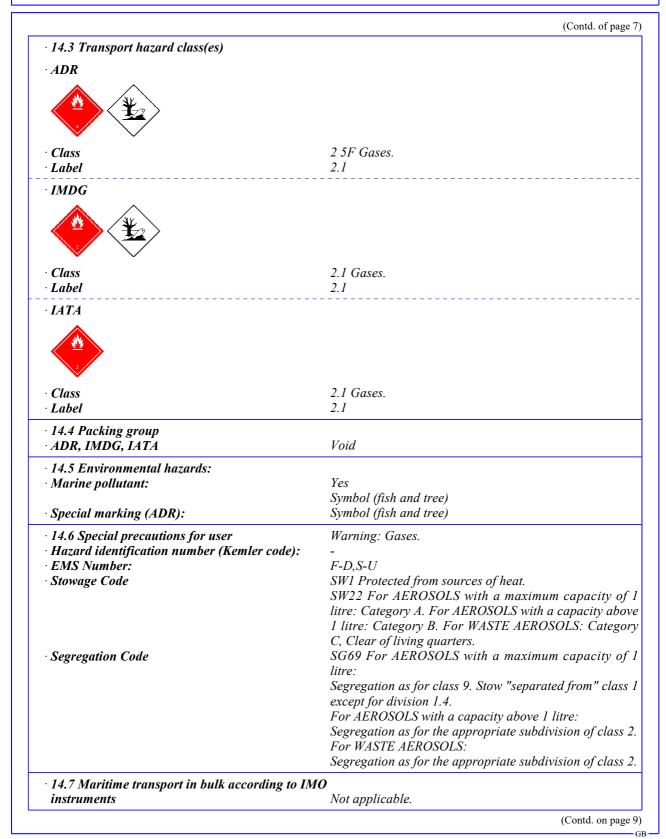
- Uncleaned packaging:
- *Recommendation:* Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

14.1 UN number or ID number	
ADR, IMDG, IATA	UN1950
14.2 UN proper shipping name	
ADR	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUX
- IMDG	AEROSOLS, MARINE POLLUTANT
· IATA	AEROSOLS, flammable

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Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D
· IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALL HAZARDOUS

SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category
- P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

· National regulations:

1. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation,

Authorisation and Restriction of Chemicals (UK REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/ EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

2. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 Local regulations.

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

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- 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.

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