



Version number 4 Revision: 09.03.2023 Printing date 09.03.2023

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- · Trade name: K2 SAMOSTART
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Starting fluid
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Melle Sp. z o. o. Stary Staw 9

63-400 OSTRÓW WLKP.

**POLAND** 

· Further information obtainable from:

Product safety department. zakupy@inter-global.com.pl

• 1.4 Emergency telephone number: During normal opening times: 0048/62 737 88 00

#### SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008 The product is not classified according to the CLP regulation



GHS02 flame

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. Aerosol I



Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms





GHS02

GHS07

- · Signal word Danger
- Hazard-determining components of labelling: diethyl ether pentane

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Węglowodory, C6, izoalkany, <5% n-heksan acetone

#### · Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye 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.

*P264* Wash hands thoroughly after handling.

*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: 74-98-6 EINECS: 200-827-9	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	<50%
CAS: 60-29-7 EINECS: 200-467-2	diethyl ether  The standard of	<25%
CAS: 109-66-0 EINECS: 203-692-4	pentane  Flam. Liq. 2, H225;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  STOT SE 3, H336, EUH066	<25%
EC number: 931-254-9	Węglowodory, C6, izoalkany, <5% n-heksan  ◆ Flam. Liq. 2, H225; ◆ Asp. Tox. 1, H304; ◆ Aquatic Chronic 2, H411;  ◆ Skin Irrit. 2, H315; STOT SE 3, H336, EUH066	<25%
CAS: 67-64-1 EINECS: 200-662-2	acetone	<25%
CAS: 106-97-8 EINECS: 203-448-7	butane, pure  Plam. Gas 1A, H220; Press. Gas (Comp.), H280	<10%
CAS: 75-28-5 EINECS: 200-857-2	isobutane  Flam. Gas 1A, H220; Press. Gas (Comp.), H280	≤2.5%

· Additional information: For the wording 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. Then 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.
- 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, sand, extinguishing powder. Do not use water.

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:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

 $\cdot$  6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· 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.

## SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling 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

· Ingre	Ingredients with limit values that require monitoring at the workplace:	
74-98	3-6 propane	
OEL	Asphx	
60-29	0-7 diethyl ether	
OEL	Short-term value: 616 mg/m³, 200 ppm Long-term value: 308 mg/m³, 100 ppm IOELV	
109-6	66-0 pentane	
OEL	Long-term value: 3000 mg/m³, 1000 ppm IOELV	
67-64	1-1 acetone	
OEL	Long-term value: 1210 mg/m³, 500 ppm IOELV	
106-9	77-8 butane, pure	
OEL	Short-term value: 1000 ppm	
75-28	3-5 isobutane	

- · 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: Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.

OEL Short-term value: 1000 ppm

· 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

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application.

· 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
Colour:
Odour:
Odour threshold:
Melting point/freezing point:

Aerosol
Colourless
Characteristic
Not determined.
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. • pH Not determined.

· Viscosity:

• Kinematic viscosity Not determined.
• Dynamic: Not determined.

· Solubility

· water: Soluble.

• Partition coefficient n-octanol/water (log value) Not determined. Not determined.

· Density and/or relative density

Density: Not determined.
 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.

Ignition temperature:
 Explosive properties:
 Product is not selfigniting.
 May form explosive peroxides.

· Change in condition

• Evaporation rate Not applicable.

· Information with regard to physical hazard classes

· Explosives Void

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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 flamme	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 Based on available data, the classification criteria are not met.

· LD/LC50	values rele	vant for classification:
ATE (Acu	te Toxicity	Estimates)
Oral	LD50	4,108 mg/kg (rat)
60-29-7 di	ethyl ether	
Oral	LD50	1,215 mg/kg (rat)
Inhalative	LC50/4 h	73,000 mg/l (rat)
67-64-1 ac	etone	
Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)
106-97-8 b	utane, pui	re
Inhalative	LC50/4 h	658 mg/l (rat)
		tion Causas skin irritation

- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure May cause drowsiness or dizziness.
- · 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.
- · 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 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

#### **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.

<b>SECTIO</b>	N 14:	Trans	port in	format	ion
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· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1950	
· 14.2 UN proper shipping name	1050 JEDOGOLG	
· ADR	1950 AEROSOLS	
· IMDG	AEROSOLS	
· IATA	AEROSOLS, flammable	
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· 14.3 Transport hazard class(es)	
· ADR	
· Class	2 5F Gases.
· Label	2.1
· IMDG, IATA	
· Class	2.1 Gases.
· Label	2.1
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Hazard identification number (Kemler code):	Warning: Gases.
EMS Number:	F-D,S-U
· Stowage Code · Segregation Code	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of litre: Category A. For AEROSOLS with a capacity about 1 litre: Category B. For WASTE AEROSOLS: Category, C. Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of litre:
	Segregation as for class 9. Stow "separated from" class except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class For WASTE AEROSOLS:
	Segregation as for the appropriate subdivision of class
· 14.7 Maritime transport in bulk according to IM instruments	<b>10</b> Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
· Transport category · Tunnel restriction code	Not permitted as Excepted Quantity 2 D
· IMDG · Limited quantities (LQ)	IL
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· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

#### **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
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

#### · Annex II - REPORTABLE EXPLOSIVES PRECURSORS

67-64-1 acetone

#### · Regulation (EC) No 273/2004 on drug precursors

60-29-7	diethyl ether	3
67-64-1	acetone	3

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

60-29-7	diethyl ether	3
67-64-1	acetone	3

- · 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 (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.

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## 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.
- H224 Extremely flammable liquid and vapour.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.

EUH019 May form explosive peroxides.

EUH066 Repeated exposure may cause skin dryness or cracking.

#### · Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

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#### · Abbreviations and acronyms:

ADR: Accord relatif au transport international 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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1A: Flammable gases – Category 1A

Aerosol 1: Aerosols - Category 1

Press. Gas (Comp.): Gases under pressure - Compressed gas

Flam. Liq. 1: Flammable liquids – Category

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3