

## ALPENTECH 250 g

Creation date	25th August 2024	Version	1
Revision date			

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

- 1.1. Product identifier ALPENTECH 250g  
 Substance / mixture substance  
 Chemical name isobutane  
 CAS number 75-28-5  
 Index number 601-004-00-0  
 EC (EINECS) number 200-857-2  
 Registration number 01-2119485395-27-XXXX
- 1.2. Relevant identified uses of the substance or mixture and uses advised against  
 Substance's intended use  
 liquid isobutane gas for cookers, heaters, barbecues and lanterns.  
 Substance uses advised against  
 Use of the product in devices not adapted to work on isobutane. Use without taking into account the identified hazards associated with the product.
- 1.3. Details of the supplier of the safety data sheet  
 Supplier  
     Name or trade name INKO-TIME  
     Address Strumykowa 10a, Łupowo, 66-450  
     Poland  
     Phone +48 95 737 52 18  
     E-mail biuro@inkotime.pl  
 Competent person responsible for the safety data sheet  
     Name INKO-TIME  
     E-mail biuro@inkotime.pl
- 1.4. Emergency telephone number  
 +48 95 737 66 86 (8-16)  
 European emergency number: 112

**SECTION 2: Hazards identification**

- 2.1. Classification of the substance or mixture  
 Classification of the substance in accordance with Regulation (EC) No 1272/2008  
 The substance is classified as dangerous.

Flam. Gas 1, H220  
 Most serious adverse physico-chemical effects  
 Extremely flammable gas. Contains gas under pressure; may explode if heated.

- 2.2. Label elements  
 Hazard pictogram



Signal word  
 Danger  
 Dangerous substance  
 isobutane  
 (Index: 601-004-00-0; CAS: 75-28-5)  
 Hazard statements  
 H220 Extremely flammable gas.  
 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.

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legal basis:  
COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to  
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- P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
  - P381 In case of leakage, eliminate all ignition sources.
  - P410+P403 Protect from sunlight. Store in a well-ventilated place.
- Requirements for child-resistant fastenings and tactile warning of danger  
Container must carry a tactile warning of danger.

2.3. Other hazards

Explosive mixtures can form at ambient temperature due to gas-air mixing. Heating a sealed gas in a sealed vessel can lead to an explosion. It is mildly irritating, slightly narcotic and asphyxiating as oxygen is displaced from the surrounding air. Direct contact with liquefied gas can cause frostbite. The endocrine-disrupting properties of the substance have not been studied. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization  
Saturated aliphatic hydrocarbons.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2 Registration number: 01-2119485395-27-XXXX	substance main component isobutane	>97.5	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	1, 3
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21	propane	<1.5	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	3
Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7 Registration number: 01-2119474691-32	butane	<1	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	1, 2, 3

Notes

- 1 Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- 2 Note K: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w 1,3-butadiene (Einecs No 203-450-8). If the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102)-P210-P403 should apply. This note applies only to certain complex oil-derived substances in Part 3.
- 3 Note U (Table 3): When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:

- Press. Gas (Comp.)
- Press. Gas (Liq.)
- Press. Gas (Ref. Liq.)
- Press. Gas (Diss.)

Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

Full text of all classifications and hazard statements is given in the section 16.



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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

##### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

##### If on skin

Remove contaminated clothes. Do not remove clothes if it adheres firmly to the skin. Warm up affected parts of the body if frostbite is apparent. In case of major frost injuries, please contact your doctor.

##### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

##### If swallowed

It is not considered the most likely route of exposure - frostbite to the lips and mouth may occur after contact with the liquid product.

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

##### If inhaled

Excessive exposure to vapors may cause respiratory irritation. After inhalation, drowsiness, shortness of breath, rapid breathing and breathing difficulties, headaches, dizziness and tachycardia may occur. At high vapor concentrations (oxygen concentration  $\leq 19\%$ ) confusion, nausea, vomiting and loss of consciousness may occur.

##### If on skin

Irritation, itching, flushing. Contact with the liquid or expanding gas can cause severe frostbite.

##### If in eyes

Irritation, tearing, pain. Contact with the liquid or expanding gas can cause severe frostbite.

##### If swallowed

Dyspnoea, headache and dizziness. At high gas concentrations, disorientation, vomiting, and loss of consciousness occur.

#### 4.3. Indication of any immediate medical attention and special treatment needed

The physician, after assessing the condition of the injured person, makes a decision regarding the course of action.

##### More information

Other relevant information is not available.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

##### Unsuitable extinguishing media

Water jet.

#### 5.2. Special hazards arising from the substance or mixture

If there are hazardous decomposition products, they are listed in section 10.6. Danger of bursting (explosion) when heated. In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

#### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. In case of leakage, eliminate all ignition sources.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. The substance is flammable. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8.

#### 6.2. Environmental precautions

Prevent uncontrolled release.



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- 6.3. Methods and material for containment and cleaning up  
Dilute vapors (if accumulated) with water spray. Thoroughly ventilate the spill area. Stop leak if possible. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies.
- 6.4. Reference to other sections  
See the Section 7, 8 and 13.

### SECTION 7: Handling and storage

- 7.1. Precautions for safe handling  
Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. No smoking. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.
- 7.2. Conditions for safe storage, including any incompatibilities  
Do not store with combustants, self-flammable or self-heating substances, organic peroxides, oxidising agents, pyrophoric solids or liquids and explosives. Read section 10 for information on incompatible materials before using the product. Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight.
- 7.3. Specific end use(s)  
Apart from the already mentioned guidelines, it is not necessary to follow any specific recommendations for the use of this product.

### SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters  
Product contains substances for which exposure limits have been specified for occupational environments.
- 8.2. Exposure controls  
Ensure proper ventilation or exhaust system in areas with high vapor concentrations. Do not use in poor ventilation. Ensure workplace is equipped with a safety shower and eye wash station. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.
- Eye/face protection  
Protective goggles or face shield (based on the nature of the work performed) according to EN 166.
- Skin protection  
Use barrier creams for skin protection, they should, however, not be applied once exposure has occurred. Hand protection: Protective gloves product resistant in accordance with EN ISO 374-1. In an explosion hazard area, both outerwear and footwear should be able to dissipate electrostatic charges. Other protection: protective work- and footwear, according to EN 344. Contaminated skin should be washed thoroughly.
- Respiratory protection  
Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment. Equipment should comply with EN 14387.
- Thermal hazard  
Flammable product, avoid contact with hot surfaces, sources of fire and high temperatures. Danger of bursting (explosion) when heated.
- Environmental exposure controls  
Observe usual measures for protection of the environment, see Section 6.2.

### SECTION 9: Physical and chemical properties

- 9.1. Information on basic physical and chemical properties
- |  |                   |
|--|-------------------|
| Physical state   | gas               |
| Colour   | colourless        |
| Odour  | without fragrance |
| Melting point/freezing point                             | -159.4 °C         |
| Boiling point or initial boiling point and boiling range | -11.73 °C         |
| Flammability   | flammable         |
| Lower and upper explosion limit                          |                   |
| bottom   | 1.8 %             |
| upper  | 8.4 %             |
| Flash point  | -87 °C            |
| Auto-ignition temperature                                | 460 °C            |

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Decomposition temperature pH Kinematic viscosity Solubility in water Solubility rozpuszczalniki organiczne Partition coefficient n-octanol/water (log value) Vapour pressure Density and/or relative density Density Relative vapour density Particle characteristics 9.2. Other information Explosive properties none	not determined gas not applicable <0.01% soluble 2.8 0.35-0.55 MPa at 27 °C 0.589 g/cm <sup>3</sup> 2 (air=1) not applicable Vapours mixed up with air can be explosive.
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### SECTION 10: Stability and reactivity

- 10.1. Reactivity  
The substance is extremely flammable. When used in the standard way, there is not any dangerous reaction with other substances.
- 10.2. Chemical stability  
Product is stable under normal conditions of use, storage, and transportation.
- 10.3. Possibility of hazardous reactions  
Contact with sources of ignition makes product set on fire.
- 10.4. Conditions to avoid  
Keep away from flames, sparks, overheating, electrostatic charge and other sources of ignition. Avoid creating mixtures of vapors or sprayed liquid with air. The product is stable and no degradation occurs under normal use.
- 10.5. Incompatible materials  
Protect against strong acids, bases and oxidizing agents.
- 10.6. Hazardous decomposition products  
Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

### SECTION 11: Toxicological information

- 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008  
No toxicological data is available for the substance. Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. It does not meet the criteria for classification as a CMR category 1A or 1B substance, according to point 1.3.1 of Annex I to Regulation (EC) No 1272/2008 (CLP).

#### Acute toxicity

Based on available data the classification criteria are not met.

butane						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Inhalation	LC <sub>50</sub>	658 mg/l	4 hours	Rat		Literary studies
Inhalation	LC <sub>50</sub>	276000 ppm	4 hours	Rat		Literary studies

isobutane						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Inhalation	LC <sub>50</sub>	658 mg/l	4 hours	Rat		Literary studies
Inhalation	LC <sub>50</sub>	276000 ppm	4 hours	Rat		Literary studies



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propane						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Inhalation	LC <sub>50</sub>	658 mg/l	4 hours	Rat		

### Skin corrosion/irritation

Based on available data the classification criteria are not met.

### Serious eye damage/irritation

Based on available data the classification criteria are not met.

### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

### Germ cell mutagenicity

No data available for the substance. 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.

### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - 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

The endocrine-disrupting properties of the substance have not been studied.

## SECTION 12: Ecological information

### 12.1. Toxicity

Based on available data the classification criteria are not met.

### 12.2. Persistence and degradability

There are no ecotoxicological data available for the product.

#### Biodegradability

butane				
Parameter	Value	Exposure time	Environment	Result
				Easily biodegradable

isobutane				
Parameter	Value	Exposure time	Environment	Result
				Easily biodegradable



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propane				
Parameter	Value	Exposure time	Environment	Result
				Easily biodegradable

- 12.3. Bioaccumulative potential  
There are no ecotoxicological data available for the product.

butane					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Kow	<4				

isobutane					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	27				
Log Pow	2.76				
Log Kow	<4				

propane					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	2.3				

- 12.4. Mobility in soil  
Because of its high volatility, the product is unlikely to cause ground or water pollution.

butane			
Parameter	Value	Temperature	Source
Napięcie powierzchniowe	<0.10	0°C	N/m

isobutane			
Parameter	Value	Temperature	Source
Napięcie powierzchniowe	<0.10	0°C	N/m
Koc	35		

- 12.5. Results of PBT and vPvB assessment  
Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.
- 12.6. Endocrine disrupting properties  
Properties of the substance disrupting the function of the hormonal system in the aquatic environment are not known.
- 12.7. Other adverse effects  
Unknown.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste transport may be subject to ADR restrictions. Do not puncture, cut or weld empty packaging. Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not dispose unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

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### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

### Waste type code

16 05 04\* gases in pressure containers (including halons) containing hazardous substances

### Packaging waste type code

15 01 04 metallic packaging

15 01 01 paper and cardboard packaging

(\* ) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

### SECTION 14: Transport information

- 14.1. UN number or ID number  
UN 2037
- 14.2. UN proper shipping name  
RECEPTACLES, SMALL, CONTAINING GAS
- 14.3. Transport hazard class(es)  
2 Gases
- 14.4. Packing group  
not relevant
- 14.5. Environmental hazards  
Product is not an environmental hazard according to the criteria of the UN Model Regulations.
- 14.6. Special precautions for user  
Reference in the Sections 4 to 8.
- 14.7. Maritime transport in bulk according to IMO instruments  
Not applicable - not intended for bulk transportation.

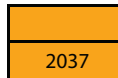
### Additional information

Hazard identification No.

UN number

Classification code

Safety signs



5F

2.1

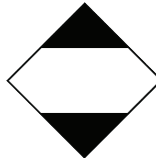


### Road transport - ADR

Limited quantities

Sign

1 L



Tunnel restriction code

(D)

### Marine transport - IMDG

EmS (emergency plan)

MFAG

F-D, S-U

620

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### SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the 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, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- 15.2. Chemical safety assessment  
not available  
More information  
Seveso Directive 2012/18/EU (Seveso III): P2 FLAMMABLE GASES

### SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

- H220 Extremely flammable gas.  
H280 Contains gas under pressure; may explode if heated.

Guidelines for safe handling used in the safety data sheet

- P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  
P381 In case of leakage, eliminate all ignition sources.  
P410+P403 Protect from sunlight. Store in a well-ventilated place.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

- ADR European agreement concerning the international carriage of dangerous goods by road  
BCF Bioconcentration Factor  
CAS Chemical Abstracts Service  
CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures  
EC Identification code for each substance listed in EINECS  
EINECS European Inventory of Existing Commercial Chemical Substances  
EmS Emergency plan  
EU European Union  
EuPCS European Product Categorisation System  
Flam. Gas Flammable gas  
IATA International Air Transport Association  
IBC International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals  
ICAO International Civil Aviation Organization  
IMDG International Maritime Dangerous Goods  
IMO International Maritime Organization  
INCI International Nomenclature of Cosmetic Ingredients  
ISO International Organization for Standardization  
IUPAC International Union of Pure and Applied Chemistry  
LC<sub>50</sub> Lethal concentration of a substance in which it can be expected death of 50% of the population  
log Kow Octanol-water partition coefficient  
OEL Occupational Exposure Limits  
PBT Persistent, bioaccumulative and toxic  
ppm Parts per million  
Press. Gas Gases under pressure  
Press. Gas (Comp.) Gas under pressure: compressed gas  
Press. Gas (Diss.) Gas under pressure: dissolved gas



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Press. Gas (Liq.)	Gas under pressure: liquefied gas
Press. Gas (Ref. Liq.)	Gas under pressure: refrigerated liquefied gas
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

Uses advised against: Any type of use not listed in this Safety Data Sheet.

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available.

The changes (which information has been added, deleted or modified)

Version 1.

More information

Classification procedure - calculation method.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.