

## EU safety data sheet

**Trade name:** Minus

**Product no.:** L26

**Current version :** 5.0.0, issued: 05.05.2021

**Replaced version:** 4.0.0, issued: 07.04.2020

**Region:** GB

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

#### 1.1 Product identifier

**Trade name**

**Minus**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses of the substance or mixture**

Cooling spray for thermal inspection (troubleshooting)

**Uses advised against**

No data available.

#### 1.3 Details of the supplier of the safety data sheet

**Address**

BBC Cellpack GmbH

Carl-Zeiss-Strasse 20

79761 Waldshut-Tiengen

Telephone no. +49 (0)7741 6007-0

Fax no. +49 (0)7741 64989

e-mail [electrical.products@cellpack.com](mailto:electrical.products@cellpack.com)

**Information provided by / telephone**

+49 (0)7741 6007-0

**Advice on Safety Data Sheet**

[msds@cellpack.com](mailto:msds@cellpack.com)

#### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aerosol 1; H222

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

#### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**

**Hazard pictograms**



GHS02

**Signal word**

Danger

**Hazard statement(s)**

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

**Precautionary statement(s)**

P101 If medical advice is needed, have product container or label at hand.  
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 vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
P501 Dispose of contents/container to a facility in accordance with local/regional/national/international regulations.

**Supplemental label elements**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.  
Do not spray on a naked flame or any incandescent material.  
Keep out of the reach of children.

**2.3 Other hazards**

During and after use possible formation of combustible mixture with solvents. Intensive spraying on skin may lead to local frostbites.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures**

**Chemical characterization**

Mixture of the following substances, containing non-hazardous substances:

**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	<b>isobutane</b>		
	75-28-5 200-857-2 601-004-00-0 01-2119485395-27	Flam. Gas 1A; H220 Press. Gas liq.; H280	>= 50.00 - < 100.00 wt%
2	<b>propane</b>		
	74-98-6 200-827-9 601-003-00-5 01-2119486944-21	Flam. Gas 1A; H220 Press. Gas liq.; H280	>= 25.00 - < 50.00 wt%
3	<b>butane</b>		
	106-97-8 203-448-7 601-004-00-0 01-2119474691-32	Flam. Gas 1A; H220 Press. Gas liq.; H280	>= 10.00 - < 25.00 wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	C, U	-	-	-
2	U	-	-	-

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3	C, U	-	-	-
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Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information**

In all cases of doubt, or when sickness symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Remove soiled or soaked clothing immediately.

**After inhalation**

Remove to fresh air, keep patient warm and at rest. Irregular breathing/no breathing: artificial respiration. If unconscious place in recovery position and seek medical advice.

**After skin contact**

Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

**After eye contact**

Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

**After ingestion**

Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person. Keep at rest.

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

No data available.

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

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**

Alcohol resistant foam, CO2, powders, water spray

**Unsuitable extinguishing media**

High power water jet

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

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Exposure to heat may cause bursting of the aerosol packagings.

### 5.3 Advice for firefighters

Cool endangered containers with water in case of fire. When extinguishing fires, use breathing apparatus with an independent source of air. DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES

## SECTION 6: Accidental release measures

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

**For non-emergency personnel**

Exclude sources of ignition and ventilate the area. Do not inhale vapours. Refer to protective measures listed in sections 7 and 8.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions

Do not allow to enter drains. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

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**6.3 Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

**6.4 Reference to other sections**

No data available.

**SECTION 7: Handling and storage**
**7.1 Precautions for safe handling**
**Advice on safe handling**

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Comply with the health and safety at work laws.

**General protective and hygiene measures**

Do not eat or drink during work - no smoking. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and after work. Avoid contact with eyes and skin. Do not inhale vapours. Remove soiled or soaked clothing immediately.

**Advice on protection against fire and explosion**

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

**7.2 Conditions for safe storage, including any incompatibilities**
**Technical measures and storage conditions**

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep container dry in a cool, well-ventilated place.

**Requirements for storage rooms and vessels**

Storage rooms must be properly ventilated.

**Incompatible products**

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection**
**8.1 Control parameters**
**Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	butane	106-97-8	203-448-7
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Butane			
	WEL short-term (15 min reference period)	1810	mg/m <sup>3</sup> 750 ppm
	WEL long-term (8-hr TWA reference period)	1450	mg/m <sup>3</sup> 600 ppm
	Comments	Carc, (only applies if Butane contains more than 0.1% of buta-1,3-diene)	

**8.2 Exposure controls**
**Appropriate engineering controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

**Personal protective equipment**
**Respiratory protection**

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If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators: Use half-mask model with cartridge or air-fed. Recommendation: gas filter AX, code colour: brown

**Eye / face protection**

Tightly fitting safety glasses (EN 166).

**Hand protection**

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

In case of short-term contact / splash protection:

Appropriate Material	nitrile rubber		
Material thickness	min.	0.45	mm
Breakthrough time	>=	60	min

**Other**

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

<b>State of aggregation</b>	
liquid	
<b>Form/Colour</b>	
Aerosol	
colourless	
<b>Odour</b>	
perceptible	
<b>pH value</b>	
No data available	
<b>Boiling point / boiling range</b>	
Not applicable	
<b>Melting point/freezing point</b>	
No data available	
<b>Decomposition temperature</b>	
No data available	
<b>Flash point</b>	
Not applicable	
<b>Ignition temperature</b>	
Value	> 200 °C
<b>Auto-ignition temperature</b>	
Comments	Product is not selfigniting.
<b>Explosive properties</b>	
This product is not explosive. Formation of explosive / highly flammable vapour-air mixtures is possible through use.	
<b>Flammability</b>	
No data available	

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Lower explosion limit			
Value	1.4	% vol	
Upper explosion limit			
Value	10.9	% vol	
Vapour pressure			
No data available			
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value	0.55	g/cm <sup>3</sup>	
Reference temperature	20	°C	
Solubility in water			
Comments	Not miscible or difficult to mix		
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	isobutane	75-28-5	200-857-2
log Pow		2.80	
Reference temperature with reference to Source		20	°C
		pH 7 ECHA	
2	propane	74-98-6	200-827-9
log Pow		appr. 1.8	
Method		QSAR	
Source		ECHA	
Viscosity			
No data available			
Solvent content			
Value	100	%	
Particle characteristics			
No data available			

**9.2 Other information**

Other information
No data available.

**SECTION 10: Stability and reactivity**
**10.1 Reactivity**

No data available.

**10.2 Chemical stability**

Stable if stored and handled properly.

**10.3 Possibility of hazardous reactions**

No data available.

**10.4 Conditions to avoid**

Stable under recommended storage and handling conditions(See section 7).

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**10.5 Incompatible materials**

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

**10.6 Hazardous decomposition products**

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

**SECTION 11: Toxicological information**
**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

<b>Acute oral toxicity</b>			
No data available			
<b>Acute dermal toxicity</b>			
No data available			
<b>Acute inhalational toxicity</b>			
No	Substance name	CAS no.	EC no.
1	isobutane	75-28-5	200-857-2
LC50		520400	ppmV
Duration of exposure		2	h
State of aggregation	Gas		
Species	mouse		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	propane	74-98-6	200-827-9
LC50	>	800000	ppmV
Duration of exposure		0.25	h
State of aggregation	Gas		
Species	rat		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>Skin corrosion/irritation</b>			
No data available			
<b>Serious eye damage/irritation</b>			
No data available			
<b>Respiratory or skin sensitisation</b>			
No data available			
<b>Germ cell mutagenicity</b>			
No	Substance name	CAS no.	EC no.
1	isobutane	75-28-5	200-857-2
Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typh. TA98, TA100, TA1535, TA1537, TA1538		
Method	Value taken from the literature		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	butane	106-97-8	203-448-7
Type of examination	In vitro Mammalian Chromosomal Aberration Test		
Species	Human Lymphocyte		
Method	OECD 473		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typhimurium		
Method	OECD 471		
Source	ECHA		

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Evaluation/classification	Based on available data, the classification criteria are not met.
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Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	isobutane	75-28-5	200-857-2
Route of exposure		inhalational	
NOAEC		9000	ppm
Type of examination		Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	
Species		rat	
Method		OECD 422	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	propane	74-98-6	200-827-9
Route of exposure		inhalational	
NOAEC		12000	ppm
Type of examination		Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	
Species		rat	
Method		OECD 422	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	butane	106-97-8	203-448-7
Route of exposure		inhalational	
Species		rat	
Method		OECD 422	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Carcinogenicity	
No data available	

STOT - single exposure	
No data available	

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	isobutane	75-28-5	200-857-2
Route of exposure		inhalational	
NOAEC		9000	ppm
Species		rat	
Method		OECD 422	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	propane	74-98-6	200-827-9
Route of exposure		inhalational	
LOAEC		12000	ppm
Species		rat	
Method		OECD 422	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	butane	106-97-8	203-448-7
Route of exposure		inhalational	
Species		rat	
Method		OECD 422	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Aspiration hazard	
No data available	

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**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

The liquid splashed in the eyes may cause irritation and reversible damage.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

No data available.

**Other information**

No data available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Toxicity to fish (acute)**

No data available

**Toxicity to fish (chronic)**

No data available

**Toxicity to Daphnia (acute)**

No data available

**Toxicity to Daphnia (chronic)**

No data available

**Toxicity to algae (acute)**

No data available

**Toxicity to algae (chronic)**

No data available

**Bacteria toxicity**

No data available

**12.2 Persistence and degradability**

**Biodegradability**

No	Substance name	CAS no.	EC no.
1	isobutane	75-28-5	200-857-2
Type		aerobic biodegradation	
Value		50	%
Duration		3.1	d
Method		QSAR	
Source		ECHA	
Evaluation		readily biodegradable	
2	propane	74-98-6	200-827-9
Type		aerobic biodegradation	
Value		50	%
Duration		3	d
Method		QSAR	
Source		ECHA	
Evaluation		readily biodegradable	
3	butane	106-97-8	203-448-7
Type		aerobic biodegradation	
Value		50	%
Duration		3.46	d
Method		QSAR	
Source		ECHA	

**12.3 Bioaccumulative potential**

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Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	isobutane	75-28-5	200-857-2
log Pow		2.80	
Reference temperature with reference to Source		20	°C
		pH 7 ECHA	
2	propane	74-98-6	200-827-9
log Pow		appr. 1.8	
Method		QSAR	
Source		ECHA	

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

No data available.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

Other adverse effects
Danger to drinking water if even extremely small quantities leak into the ground.

**12.8 Other information**

Other information
The product should not be allowed to enter drains or water courses.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

**Product**

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

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Hand over only completely emptied aerosol cans for valuable substance recovery!

**Packaging**

Waste code 15 01 04 metallic packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

## SECTION 14: Transport information

**14.1 Transport ADR/RID/ADN**

Class 2  
 Classification code 5F  
 UN number UN1950  
 Proper shipping name AEROSOLS  
 Tunnel restriction code D  
 Label 2.1

**14.2 Transport IMDG**

Class 2  
 UN number UN1950  
 Proper shipping name AEROSOLS  
 EmS F-D, S-U

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Label 2.1  
 Comments The outer packings (boxes or cartons) should comply with the Regulations of Packing Group II at least.

**14.3 Transport ICAO-TI / IATA**

Class 2.1  
 UN number UN1950  
 Proper shipping name Aerosols, flammable  
 Label 2.1  
 Comments The outer packings (boxes or cartons) should comply with the Regulations of Packing Group II (IATA-Regulation 5.2 PI203).

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information**

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

**EU regulations**

**Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**  
 According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**  
 According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3
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**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**  
 This product is subject to Part I of Annex I, risk category: P3a

**Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)**

VOC content	100	%
VOC-value	550.0	g/l

**Other regulations**  
 Adhere to the national sanitary and occupational safety regulations when using this product.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

**SECTION 16: Other information**

**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

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Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H220

Extremely flammable gas.

H280

Contains gas under pressure; may explode if heated.

**Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)**

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.

U

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.

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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