

according to Regulation (EC) No 1907/2006

# **Freezer BR**

Revision date: 02.12.2019

Product code: 146

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

## 1.1. Product identifier

Freezer BR

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

## Uses advised against

Reserved for industrial and professional use.

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

Company name:	ITW LLC & Co. KG	
Street:	Mühlackerstrasse 149	
Place:	D-75417 Mühlacker	
Telephone:	++49(0)7041-96340	Telefax:++49(0)7041-963429
e-mail:	info@itwcp.de	
Internet:	www.itwcp.de	
Responsible Department:	Produktsicherheit Mo Do. 8.00 - 16.3	0 Fr. 8.00 - 14.00
	Swiss Toxicological Information Centre	- Téléphone : +41 44 251 51 51 (in
	Switzerland dial 145)	
	United Kingdom : National Poisons Info	rmation Service - Phone number :
	8448920111	
	Österreich : Vergiftungsinformationszer	ntrale Vienna - Telefon-Nummer : +43 1
	406 43 43	
	Schweiz : Tox Info Suisse - Telefon-Nu	mmer: +41 44 251 51 51
	Italia : Centro Antiveleni, Roma - Nume	ro di telefono : +39 06 305 4343
	España : Instituto Nacional de Toxicolo	gía - Teléfono : +34 91 562 04 20
.4. Emergency telephone	Deutschland: ++49(0)7041-96340	

### 1.4. Emergency tel number:

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

## Regulation (EC) No. 1272/2008

Hazard categories: Aerosol: Aerosol 1 Hazard Statements: Extremely flammable aerosol. Pressurised container: May burst if heated.

# 2.2. Label elements

## Regulation (EC) No. 1272/2008

Signal word: Danger

Pictograms:



Hazard statements	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
Precautionary statemen	ts
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P102	Keep out of reach of children.



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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P410+P412	P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.	
P271 Use only outdoors or in a well-ventilated area.		

#### 2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

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

### 3.2. Mixtures

### Hazardous components

CAS No	Chemical name			
	EC No	Index No	REACH No	
	GHS Classification		•	
75-28-5	isobutane			50-100 %
	200-857-2	601-004-00-0		
	Flam. Gas 1; H220			
74-98-6	propane			25-50 %
	200-827-9	601-003-00-5		
	Flam. Gas 1; H220			
106-97-8	butane		10-20 %	
	203-448-7	601-004-00-0		
	Flam. Gas 1; H220			

Full text of H and EUH statements: see section 16.

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

#### After inhalation

Provide fresh air.

## After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

## After ingestion

If swallowed, immediately drink: Water.

### 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

Carbon dioxide (CO2). Foam. Extinguishing powder.

## Unsuitable extinguishing media

Water with tenside additive. Water.



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

Combustible. Vapours may form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers.

#### **SECTION 6: Accidental release measures**

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

Remove all sources of ignition.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Explosion hazard.

#### 6.3. Methods and material for containment and cleaning up

Ventilate affected area.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.

#### Hints on joint storage

Do not store together with: Material, rich in oxygen, oxidizing.

#### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

## 8.2. Exposure controls

## Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

## Eye/face protection

Tightly sealed safety glasses.

#### Hand protection

DIN EN 374 Tested protective gloves are to be worn: Butyl rubber. For special purposes, it is recommended to



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check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Protective clothing:

# **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour:	Aerosol colourless characteristic	
Changes in the physical state Initial boiling point and boiling range:		-0,5 °C
Flash point:		0°C
Lower explosion limits: Upper explosion limits:		1,4 vol. % 9,4 vol. %
Ignition temperature:		365 °C
Vapour pressure: (at 20 °C)		2100 hPa
Vapour pressure: (at 50 °C)		4900 hPa
Density:		0,55 g/cm³

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No data available

## 10.2. Chemical stability

No data available

## 10.3. Possibility of hazardous reactions

No data available .

## 10.4. Conditions to avoid

Keep away from heat. Ignition hazard.

# 10.5. Incompatible materials

No data available

# 10.6. Hazardous decomposition products

No data available

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects



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## Acute toxicity

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
106-97-8	butane					
	inhalation (4 h) gas	LC50 ppm	273000	Rat	GESTIS	

# **SECTION 12: Ecological information**

## 12.3. Bioaccumulative potential

## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-28-5	isobutane	2,8
74-98-6	propane	2,36
106-97-8	butane	2,89

## Further information

Do not allow to enter into surface water or drains.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

#### Advice on disposal

Dispose of waste according to applicable legislation.

## Waste disposal number of waste from residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

## Waste disposal number of contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

## Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

#### Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
Hazard label:	2.1
Classification code:	5F
Special Provisions:	190 327 625
Limited quantity:	1 L
Transport category:	2



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Tunnel restriction code:	D	
Other applicable information (land trans	sport)	
Inland waterways transport (ADN)		
<u>14.1. UN number:</u>	UN1950	
14.2. UN proper shipping name:	AEROSOLS	
14.3. Transport hazard class(es):	2	
Hazard label:	2.1	
Classification code:	5F	
Special Provisions:	190 327 344 625	
Limited quantity:	1 L	
Other applicable information (inland wa E0	terways transport)	
Marine transport (IMDG)		
<u>14.1. UN number:</u>	UN1950	
14.2. UN proper shipping name:	AEROSOLS	
14.3. Transport hazard class(es):	2	
14.4. Packing group:	-	
Hazard label:	2, see SP63	
Special Provisions: Limited quantity: EmS:	63, 190, 277, 327, 344, 959 See SP277 F-D, S-U	
Other applicable information (marine tra E0		
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number:	UN1950	
14.2. UN proper shipping name:	AEROSOLS, flammable	
14.3. Transport hazard class(es):	2.1	
Hazard label:	2.1	
Special Provisions: Limited quantity Passenger:	A145 A167 30 kg G	
IATA-packing instructions - Passenger:	203	
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	75 kg 203 150 kg	
Other applicable information (air transp E0 : Y203	-	

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## 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

# **SECTION 15: Regulatory information**

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

# EU regulatory information

Restrictions on use (REACH, annex XVII): Entry 28: isobutane; butane 2004/42/EC (VOC): 50 % (275 g/l)

# National regulatory information

Water contaminating class (D):

- - not water contaminating

SECTION 16: Other information

## Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)