

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Mould Release Agent

Print date: 06.03.2012

Product code: Non_Stick

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

Mould Release Agent

Relevant identified uses of the substance or mixture and uses advised against**Details of the supplier of the safety data sheet**

Company name:	Hager und Werken GmbH & Co. KG		
Street:	Ackerstrasse 1		
Place:	D-47269 Duisburg		
Telephone:	+49 203 992690	Telefax: +49 203 299283	
e-mail:	info@hagerwerken.de		
Internet:	www.hagerwerken.de		
Responsible Department:	Produktsicherheit		

Emergency telephone: +49 203 992690 Mo. - Do. 8:00 - 16:30 Fr. 8:00 - 14:00**SECTION 2: Hazards identification****Classification of the substance or mixture**

Indications of danger : Extremely flammable, Irritant, Dangerous for the environment

R-phrases:

Extremely flammable.

Irritating to skin.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Vapours may cause drowsiness and dizziness.

Label elements

Danger symbols:

F+ - Extremely flammable; Xi - Irritant; N - Dangerous for the environment



F+ - Extremely flammable

Xi - Irritant

N - Dangerous for the environment

R phrases

12	Extremely flammable.
38	Irritating to skin.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
67	Vapours may cause drowsiness and dizziness.

S phrases

16	Keep away from sources of ignition - No smoking.
23	Do not breathe Aerosol .
33	Take precautionary measures against static discharges.
37	Wear suitable gloves.
43	In case of fire, use sand . Extinguishing powder.
51	Use only in well-ventilated areas.
57	Use appropriate containment to avoid environmental contamination.
60	This material and its container must be disposed of as hazardous waste.
62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Special labelling of certain mixtures

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do

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not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

SECTION 3: Composition/information on ingredients**Mixtures****Hazardous components**

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
203-523-4	hexane (containing < 5 % n-hexane (203-777-6)); 2-methylpentane	25-50 %
107-83-5	F, Xn, Xi, N R11-65-38-67-51-53	
601-007-00-7	Flam. Liq. 2, Asp. Tox. 1, Skin Irrit. 2, STOT SE 3, Aquatic Chronic 2; H225 H304 H315 H336 H411	
203-448-7	butane	25-50 %
106-97-8	F+ R12	
601-004-00-0	Flam. Gas 1; H220	
200-827-9	propane	10-25 %
74-98-6	F+ R12	
601-003-00-5	Flam. Gas 1; H220	

Full text of R- and H-phrases: see section 16.

SECTION 4: First aid measures**Description of first aid measures****After inhalation**

Provide fresh air. In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

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.

Most important symptoms and effects, both acute and delayed

No data available

Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures**Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO2). Foam. Extinguishing powder.

Extinguishing media which must not be used for safety reasons

Water. Foam. Water with tenside additive. Water.

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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.

Advice for firefighters

Wear a self-contained breathing apparatus and chemical resistant suit.

Additional information

Use water spray/stream to protect personnel and to cool endangered containers. Use a water spray jet to knock down vapours/gases/mists. Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Wear a self-contained breathing apparatus and chemical resistant suit.

Environmental precautions

Do not empty into drains or the aquatic environment. Explosion hazard.

Methods and material for containment and cleaning up

Ventilate affected area.

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

In case of open handling equipment with built-in suction must be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

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.

Advice on storage compatibility

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

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure limits (EH40)

CAS No.	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

Exposure controls

Occupational exposure controls

In case of open handling equipment with built-in suction must be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Take off immediately all contaminated clothing. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

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Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Tested protective gloves are to be worn: Butyl rubber. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Eye protection

Tightly sealed safety glasses.

Skin protection

Protective clothing:

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties**

Physical state:	Aerosol
Colour:	colourless
Odour:	characteristic

Test method**Changes in the physical state**

Boiling point:	-0,5 °C
Flash point:	< 0 °C
Lower explosion limits:	1,2 vol. %
Upper explosion limits:	9,4 vol. %
Ignition temperature:	300 °C
Vapour pressure: (at 20 °C)	2100 hPa
Vapour pressure: (at 50 °C)	4900 hPa
Density:	0,65 g/cm ³

SECTION 10: Stability and reactivity**Reactivity**

No data available

Chemical stability

No data available

Possibility of hazardous reactions

No data available

Conditions to avoid

Keep away from heat. Ignition hazard.

Incompatible materials

No data available

Hazardous decomposition products

No data available

SECTION 11: Toxicological information**Information on toxicological effects**

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Acute toxicity

CAS No.	Chemical name				
	Exposure routes	Method	Dose	Species	h
106-97-8	butane				
	Acute inhalation toxicity	LC50	658 ppm	Ratte	4

Irritation and corrosivity

Vapours may cause drowsiness and dizziness. After skin contact: irritant.

Additional information on tests

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information**Toxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Bioaccumulative potential**Partition coefficient n-octanol/water**

CAS No.	Chemical name	Log Pow
107-83-5	hexane (containing < 5 % n-hexane (203-777-6)); 2-methylpentane	3,21
106-97-8	butane	2,89

Further information

Do not empty into drains or the aquatic environment. The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations**Waste treatment methods****Advice on disposal**

Do not empty into drains or the aquatic environment. Waste disposal according to official state regulations.

Waste disposal number of waste from residues/unused products160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances
Classified as 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

Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

UN number: UN1950
UN proper shipping name: AEROSOLS
Transport hazard class(es): 2

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Hazard label: 2.1



Classification code: 5F
 Special Provisions: 190 327 625
 Limited quantity: 1 L
 Transport category: 2
 Tunnel restriction code: D

Other applicable information (land transport)

E0

Inland waterways transport

UN number: UN1950
UN proper shipping name: AEROSOLS
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 waterways transport)

E0

Marine transport

UN number: UN1950
UN proper shipping name: AEROSOLS
Transport hazard class(es): 2
Packing group: -
 Hazard label: 2, see SP63

Special Provisions: 63, 190, 277, 327, 344, 959
 Limited quantity: See SP277
 EmS: F-D, S-U

Other applicable information (marine transport)

E0

Air transport

UN/ID number: UN1950
UN proper shipping name: AEROSOLS, flammable
Transport hazard class(es): 2.1
 Hazard label: 2.1



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Special Provisions:	A145 A167	
Limited quantity Passenger:	30 kg G	
IATA-packing instructions - Passenger:		203
IATA-max. quantity - Passenger:		75 kg
IATA-packing instructions - Cargo:		203
IATA-max. quantity - Cargo:		150 kg

Other applicable information (air transport)

E0
: Y203

Environmental hazards

Dangerous for the environment: no

SECTION 15: Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

1999/13/EC (VOC): 80 % (520 g/l)

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

SECTION 16: Other information**Full text of R-phrases referred to under sections 2 and 3**

11	Highly flammable.
12	Extremely flammable.
38	Irritating to skin.
51	Toxic to aquatic organisms.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53	May cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
67	Vapours may cause drowsiness and dizziness.

Full text of H-Statements referred to under sections 2 and 3

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

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