

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Name of product** Mould Release Agent, Spray  
114500-201471

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

**Recommended intended purpose(s)**  
Technical Aerosols

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

**Manufacturer/distributor** HANSA-FLEX AG  
Zum Panrepel 44, D-28307 Bremen  
Phone 0421/489070, Fax 0421/4890788  
E-Mail info@hansa-flex.com  
Internet www.hansa-flex.com

**Advice** Produktinformation  
Phone +49(0)421/48907-0  
Fax +49(0)421/48907-88  
E-mail (competent person):  
info@hansa-flex.com

**1.4. Emergency telephone number**

**Emergency advice** Giftinformationszentrum Nord GIZ-Nord  
Phone +49(0)551-19 240

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to 67/548/EEC or 1999/45/EC**

F+; R12  
N; R51/53  
R66  
R67

**R-phrases**

12 Extremely flammable.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
66 Repeated exposure may cause skin dryness or cracking.  
67 Vapours may cause drowsiness and dizziness.

**2.2. Label elements****Labelling according to 1999/45/EC****Remarks for labelling**

The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.

**F+** Extremely flammable  
**N** Dangerous for the environment

**R-phrases**

12 Extremely flammable.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
66 Repeated exposure may cause skin dryness or cracking.  
67 Vapours may cause drowsiness and dizziness.

**S-phrases**

23	Do not breathe spray.
29	Do not empty into drains.
51	Use only in well-ventilated areas.
61	Avoid release to the environment. Refer to special instructions/safety data sheets.

**Special rules for supplemental label elements for certain mixtures**

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.

Without sufficient ventilation the formation of explosive vapour/air mixtures cannot be excluded. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

**2.3. Other hazards****Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**SECTION 3: Composition/ information on ingredients****3.1. Substances**

not applicable

**3.2. Mixtures****Description**

Mixture of active ingredients with propellant

**Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
106-97-8	203-448-7	butane	10 - 25	F+ R12
109-66-0	203-692-4	pentane	50 - 100	F+ R12; Xn R65; R66; R67; N R51-53
74-98-6	200-827-9	propane	10 - 25	F+ R12

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
106-97-8	203-448-7	butane	10 - 25	Flam. Gas 1, H220 / Press. Gas
109-66-0	203-692-4	pentane	50 - 100	Flam. Liq. 2, H225 / Asp. Tox. 1, H304 / STOT SE 3, H336 / Aquatic Chronic 2, H411
74-98-6	200-827-9	propane	10 - 25	Flam. Gas 1, H220 / Press. Gas

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated soaked clothing immediately.

**In case of inhalation**

Remove the casualty into fresh air and keep him immobile.

In the event of symptoms refer for medical treatment.

**In case of skin contact**

In case of contact with skin wash off with soap and water.

Consult a doctor if skin irritation persists.

**In case of eye contact**

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

**In case of ingestion**

Do not induce vomiting.

Refer to medical treatment.

**4.2. Most important symptoms and effects, both acute and delayed****Physician's information / possible symptoms**

The following symptoms may occur:

Anaesthetic state  
Headache  
Confusion

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

No information available.

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**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam  
Dry powder  
Carbon dioxide  
Water spray jet

**Unsuitable extinguishing media**

Full water jet

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

Danger of bursting  
Fire gas of organic material has to be classed invariably as respiratory poison.

**5.3. Advice for firefighters****Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.  
Use breathing apparatus with independent air supply ( isolated ).

**Additional information**

Cool endangered containers with water spray jet.

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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.  
Use personal protective clothing.  
Keep away sources of ignition.

**6.2. Environmental precautions**

Do not discharge into the drains or bodies of water..

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

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).  
After taking up the material dispose according to regulation.

**6.4. Reference to other sections**

No information available.

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

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

**General protective measures**

Avoid contact with eyes and skin  
Do not inhale gases/vapours/aerosols.

**Hygiene measures**

At work do not eat, drink and smoke.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking  
Do not spray on a naked flame or any incandescent material.  
Pressurized container.  
Do not pierce or burn even after use.  
Vapours can form an explosive mixture with air.  
Avoid effect of heat.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep in closed original container.  
Adhere to administrative regulations relating to storage of compressed gas cylinders / containers.

**Further information on storage conditions**

Protect from heat and direct solar radiation.  
Storage temperature may not exceed 50°C (=122°F).  
Store container at cool and aired place.  
Keep in a cool place.

**7.3. Specific end use(s)**

No information available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Ingredients with occupational exposure limits to be monitored**

CAS No	Name	Code	[mg/m <sup>3</sup> ]	[ppm]	Remark
106-97-8	Butane	8 hours	1450	600	EH40/2005
		Short-term	1810	750	
14807-96-6	Talc respirable dust	8 hours	1		EH40/2005

**Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)**

CAS No	Name	Code	[mg/m <sup>3</sup> ]	[ppm]	Remark
109-66-0	pentane	8 hours	3000	1000	

**8.2. Exposure controls****Respiratory protection**

If ventilation insufficient, wear respiratory protection.  
Breathing apparatus

**Hand protection**

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.  
Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitrile rubber; 0,4mm;480min; 60min.  
Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

**Eye protection**

tightly fitting goggles

**Skin protection**

protective overalls

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Form**

aerosol

**Colour**

yellowish

**Odour**

solvent-like

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>boiling point</b>	-44 °C				
<b>Flash point</b>	-97 °C				
<b>Ignition temperature</b>	285 °C				
<b>Lower explosion limit</b>	1,4 Vol-%				
<b>Upper explosion limit</b>	10,9 Vol-%				
<b>Vapour pressure</b>	8300 hPa				
<b>Relative density</b>	0,61 g/ml	20 °C			
<b>Solubility in water</b>					immiscible
<b>Solvent concentration</b>	94 %				
<b>Solids content</b>	6 %				

**Explosive properties**

The product is considered non-explosive ; nevertheless explosive vapour/air mixtures can be generated .

**9.2. Other information**

No information available.

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

No information available.

**10.2. Chemical stability**

No information available.

**10.3. Possibility of hazardous reactions**

No information available.

**10.4. Conditions to avoid**

Keep away from heat.

Formation of explosive gas/air mixtures.

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide.

**Thermal decomposition**

Remark No decomposition if used as directed.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity/Irritability/Sensitization**

	Value/Validation	Species	Method	Remark
<b>Irritability skin</b>	non-irritant			

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	Value/Validation	Species	Method	Remark
<b>Irritability eye</b>	non-irritant			
<b>Skin sensitization</b>	non-sensitizing			

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**Additional information**

The product is to be handled with the caution usual with chemicals.

Other hazardous properties may not be excluded.

Labelling in compliance with the assessment procedure specified in the EC guidelines 1999/45/EC.

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**SECTION 12: Ecological information****12.1. Toxicity**

No information available.

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6. Other adverse effects****General regulation**

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into aquatic environment.

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**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Waste code No.**

15 01 10\*

**Name of waste**

packaging containing residues of or contaminated by dangerous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

**Recommendations for the product**

Remove in accordance with local official regulations.

**Recommendations for packaging**

Dispose of according to the local waste regulations.

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**SECTION 14: Transport information****Land and inland navigation transport ADR/RID**

UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS, Classification code: 5F  
transport in "limited quantities" according to 3.4 ADR is possible

**Marine transport IMDG**

UN 1950 AEROSOLS (PENTANE), 2.1

MARINE POLLUTANT: Yes

**Air transport ICAO/IATA-DGR**

UN 1950 Aerosols, flammable, 2.1

ENVIRONMENTALLY HAZARDOUS: Yes

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**Special precautions for user**

No information available.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****VOC standard****Remark**

Daten separat anfragen / Request data separately.

**15.2. Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

**Further information**

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

**Sources of key data used**

Danish MAL Code 2-1

VOC-CH 94,00%

**Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)**

R 12 Extremely flammable.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 Harmful: may cause lung damage if swallowed.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.