

## MATERIAL SAFETY DATA SHEET

### LIMBFOAM RELEASE AGENT (LFRA/5)

Safety data sheet according to 1907/2006/EG  
Date / Revised: 02.04.2008  
Product: LimbFoam Release Agent

Page: 1 of 6  
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#### 1. Substance/preparation and company identification

**PRODUCT NAME:** LIMBFOAM RELEASE AGENT  
**PART No.:** LFRA/5  
**SUPPLIER:** Limbtex Ltd,  
Unit 1, Elizabeth Business Park  
Tigers Close,  
South Wigston  
Leicestershire  
LE18 4WS  
**TEL:** 0116 278 5440

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#### 2. Hazard identification

Hazard description:

Xn harmful

Information concerning particular hazard for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

A long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

R 53 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.

Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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#### 3. Composition/information on ingredients

Chemical nature:

Mixture: consisting of following components.

Hazardous ingredients:

Hydrocarbon mixture, aliphatic

Content (W/W): 50-100%

R-phrases(s): 53-65-66

CAS Number: 64741-65-7

Hazard symbol(s): Xn

Paraffin waxes and Hydrocarbon waxes      CAS Number:      8002-74-2  
EINECS:      232-315-6      Content (W/W):      5-10%  
Additional information: The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

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#### 4. First-aid measures

After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Consult a doctor in case of complaints. In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

After swallowing: If symptoms persist consult doctor. Do not induce vomiting; call for medical help immediately.

Information for doctor: Hazards. Danger of pneumonia. Danger of pulmonary oedema.

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#### 5. Fire-fighting measures

Suitable extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards caused by substance, its products of combustion or resulting gases: Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released: Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.

Additional information: Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system.

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#### 6. Accidental release measures

Personal-related safety precautions: Ensure adequate ventilation. Wear protective clothing. Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources. Use respiratory protective device against the effects of fumes/dust/aerosol.

Measures for environmental protection: Do not allow to enter sewage/surface or groundwater. Inform respective authorities in case of seepage into water course or sewage system.

Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Dispose contaminated material as waste according to item 13.

Additional information: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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#### 7. Handling and storage

##### Handling:

Information for safe handling: Keep away from heat and direct sunlight. Provide for best ventilation in the work space. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Take care by opening.

Information about fire – and explosion protection: Keep ignition sources away. Do not smoke. Protect against electrostatic charges. Protect from heat.

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Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location. Segregate from foods and animal feeds. Segregate from acids. Segregate from oxidants. Suitable material for receptacles and pipes: steel or stainless steel.

Information about storage in one common storage facility: Store away from oxidizing agents. Store away from foodstuffs.

Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

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**8. Exposure controls and personal protection**

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

Paraffin waxes and Hydrocarbon waxes CAS-Nr.: 8002-74-2

WEL: Long -term value: 2 mg/m<sup>3</sup>

Short-term value: 6 mg/m<sup>3</sup>

Additional information: The lists valid during the making were used as basis.

Personal protective equipment:

General protective and hygienic measures: Wash hands before breaks and at the end of the work.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Not necessary if rooms is well-ventilated.

Protection of hands: Protective gloves. Solvent resistant gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the substance/ the preparation the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves: Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles.

Body protection: Protective work clothing. Solvent resistant protective clothing.

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**9. Physical and chemical properties**

<u>Form:</u>	fluid
<u>Colour:</u>	Whitish
<u>Odour:</u>	Aromatic
<u>Melting point:</u>	undetermined
<u>Boiling point/Boiling range:</u>	ca. 160°C
<u>Flash point:</u>	ca. 60°C
<u>Ignition temperature:</u>	ca 354°C
<u>Self-igniting:</u>	Product is not self igniting
<u>Danger of explosion:</u>	Test
<u>Explosion limitis:</u>	

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<u>Lower:</u>	0.6 Vol%
<u>Upper:</u>	6 Vol%
<u>Vapour pressure:</u>	1 hPa (20°C)
<u>Density:</u>	0.78 g/cm <sup>3</sup>
<u>Solubility in water:</u>	Not miscible or difficult to mix
<u>Viscosity (Dynamic at 20°C):</u>	ca. 60 mPas
<u>VOC (EC):</u>	90.00%

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#### 10. Stability and reactivity

Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.

Materials to be avoided: Avoid contact with strong oxidizing agents.

Dangerous reactions: Forms explosive gas mixture with air. Reacts with acids, alkalis and oxidizing agents

Dangerous decomposition products: Carbon monoxide and carbon dioxide. Flammable gases/vapours.

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#### 11. Toxicological information

Acute toxicity:

CAS-Nr. 64741-65-7 hydrocarbon mixture aliphatic

LD50 oral: > 2000 mg/kg (rat)

LD50 dermal: > 2000 mg/kg (rat)

Primary irritant effects:

on the skin: irritation feasible

on the eye: irritation feasible.

Sensitization: No sensitizing effects known.

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#### 12. Ecological information

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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#### 13. Disposal considerations

Product:

Recommendation: Must be specially treated adhering to official regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

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#### 14. Transport information

Land transport ADR (cross-border):

ADR/GGVS: 3 (F1) Flammable liquids

UN-Number: 3295

Label: 3

Packaging group: III

Description of goods: 3295 HYDROCARBONS, LIQUID, N.O.S.

RID/GGVE: See ADR

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Maritime transport IMDG:

IMDG Class: 3  
UN-Number: 3295  
Label: 3  
Packaging group: III  
EMS Number: F-E, S-D  
Marine pollutant: no  
Propper shipping name: 3295 HYDROCARBONS, LIQUID, N.O.S.

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 3  
UN/ID Number: 3295  
Label: 3  
Packaging group: III  
Propper shipping name: 3295 HYDROCARBONS, LIQUID, N.O.S.

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**15. Regulatory information**

Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives /Ordinance on hazardous materials.

Code letter and hazard designation of product:

Xn Harmful

Hazard-determining components of labelling: hydrocarbon mixture, aliphatic

R-phrase(s)

R 53 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

S-phrase(s)

S 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).  
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S 60 This material and its container must be disposed of as hazardous waste.  
S 61 Avoid release to the enviroment. Refer to special instructions/saftey data sheets.  
S 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Technical instructions (air): Class Share in %  
NK 90.0

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**16. Other information**

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:

Hazards description:

Xn Harmful

Relevante R-phrases

R 53 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

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.