



## Safety Data Sheet

### ROLFLEX BK/8

**Safety Data Sheet dated 23/9/2015, version 1**  
**Printing date: 22/01/2016**

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

1.1. Product identifier

Trade name: ROLFLEX BK/8

MSDS code: F005499

Chemical description: Blocked polyisocyanate in aqueous dispersion.

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

Recommended use:

Industrial uses.

1.3. Details of the supplier of the safety data sheet

Supplier:

LAMBERTI S.p.A. - Via Piave 18 - 21041 Albizzate (VA) - Phone +39 0331 715 111 - Fax +39 0331 775 577 - e-mail: hse@lamberti.com

Competent person responsible for the safety data sheet:

hse@lamberti.com

1.4. Emergency telephone number

LAMBERTI S.p.A. - Phone +39 0331 715 111 - 24h

#### SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

EUH208 Contains 2-butanone oxime; ethyl methyl ketoxime: May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

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

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

No ingredients to be listed.

#### SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

- In case of eyes contact:  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- In case of Ingestion:  
Do not under any circumstances induce vomiting. Seek immediately medical advice.
- In case of Inhalation:  
Remove casualty to fresh air and keep warm and at rest.
- 4.2. Most important symptoms and effects, both acute and delayed  
Not known.
- 4.3. Indication of any immediate medical attention and special treatment needed  
Treatment:  
Not known.
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## **SECTION 5: Firefighting measures**

- 5.1. Extinguishing media  
Suitable extinguishing media:  
Water.  
Carbon dioxide (CO<sub>2</sub>).  
Extinguishing media which must not be used for safety reasons:  
Not known.
- 5.2. Special hazards arising from the substance or mixture  
Do not inhale explosion and combustion gases.
- 5.3. Advice for firefighters  
Use suitable breathing apparatus .  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Move undamaged containers from immediate hazard area if it can be done safely.
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## **SECTION 6: Accidental release measures**

- 6.1. Personal precautions, protective equipment and emergency procedures  
Wear personal protection equipment.  
Remove all sources of ignition.  
Remove persons to safety.  
See protective measures under point 7 and 8.
- 6.2. Environmental precautions  
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
Retain contaminated washing water and dispose it.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
- 6.3. Methods and material for containment and cleaning up  
Suitable material for taking up: absorbing material, organic, sand  
Wash with plenty of water.
- 6.4. Reference to other sections  
See also section 8 and 13
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## **SECTION 7: Handling and storage**

- 7.1. Precautions for safe handling  
Avoid contact with skin and eyes, inhalation of vapours and mists.  
Do not eat or drink while working.  
See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities  
In order to maintain the performance of the product, store at room temperature and protect from frost.  
Keep away from food, drink and feed.  
Incompatible materials:  
None.  
Instructions as regards storage premises:  
Adequate ventilation in working area.  
Packaging suggested:  
Plastic drums.
- 7.3. Specific end use(s)  
None in particular
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## **SECTION 8: Exposure controls/personal protection**

- 8.1. Control parameters  
No occupational exposure limit available  
DNEL Exposure Limit Values  
N.D.  
PNEC Exposure Limit Values  
N.D.

## 8.2. Exposure controls

### Eye protection:

Use close fitting safety goggles. (ref. EN 166, EN 140, EN175).

### Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton. (ref. EN 340).

### Protection for hands:

Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized. In case of prolonged contact, the use of protective gloves is recommended, providing comprehensive protection to chemicals (refer to EN 374).

### Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged, e.g. (ref. EN 136, EN 140, EN 141, EN 143, EN 149, EN 405).

### Thermal Hazards:

None

### Environmental exposure controls:

None

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## SECTION 9: Physical and chemical properties

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

Appearance and colour: Liquid.

Odour: Slight.

Odour threshold: N.D.

pH: 7 - 9

Melting point / freezing point: N.A.

Initial boiling point and boiling range: approx. 100 °C.

Solid/gas flammability: N.D.

Upper/lower flammability or explosive limits: N.D.

Vapour density: N.D.

Flash point: > 65 °C.

Evaporation rate: N.D.

Vapour pressure: N.D.

Relative density: approx. 1.06

Solubility in water: Dispersible.

Solubility in oil: N.D.

Partition coefficient (n-octanol/water): N.D.

Auto-ignition temperature: N.D.

Decomposition temperature: N.D.

Viscosity: N.D.

Explosive properties: N.D.

Oxidizing properties: N.D.

### 9.2. Other information

Miscibility: N.D.

Fat Solubility: N.D.

Conductivity: N.D.

Substance Groups relevant properties N.D.

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

Stable under normal conditions

### 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5. Incompatible materials

Not known.

### 10.6. Hazardous decomposition products

Not known.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicological information of the mixture:

##### a) acute toxicity:

LD50 Oral Rat > 2000 mg/kg. - Based on components.

##### b) skin corrosion/irritation:

Irritation Skin : repeated and prolonged contacts may cause slight irritation.

##### d) respiratory or skin sensitisation:

Irritation Eye : repeated and prolonged contacts may cause slight irritation.

Other : N.D.

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.D.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

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## SECTION 12: Ecological information

### 12.1. Toxicity

Ecological information of the mixture:

a) Aquatic acute toxicity:

LC50 > 100 mg/l - aquatic species (according to the criteria of the CLP Regulation).

### 12.2. Persistence and degradability

Ecological information of the mixture:

Biodegradability: The water dispersed polyurethane typically show low biodegradability (<10%) but they have no environmental concern due to the negligible bioaccumulation (log Pow <3) and can be easily removed in water treatment plants.

### 12.3. Bioaccumulative potential

Ecological information of the mixture:

Bioaccumulation: Data not available.

### 12.4. Mobility in soil

Ecological information of the mixture:

Mobility in soil: Data not available.

### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

### 12.6. Other adverse effects

None

Use according to criteria of good industrial practice, avoiding product dispersion in the environment.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

If possible recover the product, otherwise dispose of in authorized landfill or incineration in accordance with local regulation.

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## SECTION 14: Transport information

### 14.1. UN number

N.A.

### 14.2. UN proper shipping name

Proper Shipping Name: N.A.

### 14.3. Transport hazard class(es)

Road (ADR): N.A.

Air (ICAO/IATA): N.A.

Sea (IMO/IMDG): N.A.

### 14.4. Packing group

N.A.

### 14.5. Environmental hazards

N.A.

### 14.6. Special precautions for user

N.A.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.D.

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## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH).

For non-EU Countries, the Material Safety Data Sheet it is prepared following the main principles of Globally Harmonized System of Classification and Labelling of Chemicals (GHS) which are adopted worldwide.

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## SECTION 16: Other information

N.A. = Not Applicable

N.D. = No Data available

This safety data sheet has been completely updated in compliance to Regulation 453/2010/EU.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

TOXNET - Databases on toxicology, hazardous chemicals, environmental health, and toxic releases;

NIOSH - Registry of toxic effects of chemical substances (1983) - Occupational Health

Guidelines for Chemical Hazards (1995) - Pocket Guide to Chemical Hazards (on line)

European Chemical Bureau - ESIS: European chemical Substances Information System;

CESIO - Classification and labelling of anionic, nonionic surfactants (January 2000).

M. Sittig-Handbook of toxic and Hazardous Chemicals and Carcinogens- III Ed.

E.R. Plunkett - Handbook of Industrial Toxicology - III Ed. 1991.

Samson Chem. Pub.-Chemical Safety Sheet working safely with hazardous chemical.

SAX'S Dangerous Properties of Industrial Materials. VIII (1993)

ACGIH "2013 TLVs and BEIs".

ILV "1998/24/EC Directive and subsequent addition".

The product must be stored, handled and used according to criteria of good industrial practice and to regulations in force. This leaflet is offered for your consideration and guidance only. This leaflet complements the Technical Data Sheet but does not replace it. The information herein contained is given to the best of our knowledge at the time of issue.

Due to the several ways in which the product may be used and the possible interaction with variables not depending on or unknown to the supplier, we also cannot accept any liability whatsoever for any loss or damage however arising from the handling and use of our products.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LTE: Long-term exposure.

PNEC: Predicted No Effect Concentration.

REACH: Registration Evaluation and Authorization of Chemicals.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

SVHC: Candidate List of Substances of Very High Concerns.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

WGK: German Water Hazard Class.

