

Safety data sheet

Revision: 07-10-2015
Replaces: 11-08-2011
Version: 02.01 /GBR

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

1.1. Product identifier

Trade name: Isocyanate (Component A) Foam Pack
Substance name: Polymethylene Polyphenylisocyanate
Registration number: -
EC Number: --
CAS No.: 9016-87-9

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

Recommended uses: Industrial polyurethane foam. Insulation for district heating joints
2 component kit. To be mixed together with polyol (Component B)

1.3. Details of the supplier of the safety data sheet

Supplier: LOGSTOR A/S
Danmarksvej 11
9670 Løgstør
Denmark
Tel: +45 99 66 10 00
Fax: +45 99 66 11 80
Email: tit@logstor.com

1.4. Emergency telephone number

0870 600 6266 (UK only) Only available to health professionals.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification (Regulation (EC) No 1272/2008): Acute tox. 4; H332 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 STOT RE 2; H373 Carc. 2; H351

Please see section 16 for the full text of H-phrases.

Most serious harmful effects: Harmful if inhaled. Causes serious eye irritation. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Suspected of causing cancer.

2.2. Label elements



Signal word:

Danger

Contains:

CAS: 9016-87-9: Polymethylene Polyphenylisocyanate.

H-phrases:

Harmful if inhaled.(H332)
Causes serious eye irritation.(H319)
Causes skin irritation.(H315)
May cause allergy or asthma symptoms or breathing difficulties if inhaled.(H334)
May cause an allergic skin reaction.(H317)
May cause respiratory irritation.(H335)
May cause damage to organs through prolonged or repeated exposure.(H373)
Suspected of causing cancer.(H351)

P-phrases:

Wear protective gloves/eye protection/face protection.(P280-høa)
In case of inadequate ventilation wear respiratory protection.(P285)
IF ON SKIN: Wash with plenty of soap and water.(P302/352)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305/351/338)
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.(P304/341)
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.(P342/311)

Supplemental information:

Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards

When mixing two components, consult the safety data sheets for both components.
The substance does not meet the criteria for PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

Registration number	CAS/ EC Number	Substance	CLP-classification (Regulation (EC) No 1272/2008)	w/w%	Note
.	9016-87-9	Polymethylene Polyphenylisocyanate	Carc. 2;H351 Acute Tox. 4;H332 STOT RE 2;H373 Eye Irrit. 2;H319 STOT SE 3;H335 Skin Irrit. 2;H315 Resp. Sens. 1;H334 Skin Sens. 1;H317	100	9)
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9) The substance is an isocyanate

Please see section 16 for the full text of H-phrases.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
Ingestion:	Make sure airways are not obstructed. The product hardens immediately in the mouth and makes swallowing almost impossible. The saliva in the mouth causes the hardened product to loosen slowly (over several hours). Seek medical advice if symptoms persist. Seek medical advice in case of persistent discomfort.
Skin:	Wash the skin thoroughly with water and continue washing for a long time. Remove contaminated clothing. Carefully remove as much of the product from the skin as possible, using a cloth. Wash skin thoroughly with soap and lukewarm water and apply skin cream. Seek medical advice in case of eczema.
Eyes:	Flush immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.

Other information: When obtaining medical advice, show the safety data sheet or label.

4.2. Most important symptoms and effects, both acute and delayed

Harmful if inhaled.
Irritating to eyes. Causes a burning sensation and tearing. Irritating to skin – may cause reddening. May cause sensitization by inhalation. Symptoms include cold, sneezing, breathing difficulties and hives. May cause sensitization by skin contact. Symptoms include reddening, swelling, blistering and ulceration – often slowly developing. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.
Suspected of causing cancer.

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

Treat symptoms. Ensure that medical personnel are aware of the material involved, and take precautions to protect themselves.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with powder, foam, carbon dioxide or water mist. Use water or water mist to cool non-ignited stock.

Unsuitable extinguishing media Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous fumes are formed in fire conditions.

5.3. Advice for firefighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases – seek fresh air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Wear safety goggles/face protection. Wear gloves. Stop leak if this can be done without risk. Stay upwind/keep distance from source.

For emergency responders: In addition to the above: Protective suit equivalent to EN 368, type 3, is recommended.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent, non-combustible material and transfer to suitable waste containers.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. All work must be carried out under well-ventilated conditions. Wash hands before breaks, before using restroom facilities, and at the end of work. Do not eat, drink or smoke during work. A safety shower must be available. Running water and eye wash equipment must be available. A workplace evaluation must be performed to ensure that employees are not exposed to effects that may carry risks in connection with pregnancy or breastfeeding.

7.2. Conditions for safe storage, including any incompatibilities

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

Ingredient:	Exposure limit	Comments
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Isocyanates, all, (as -NCO)	0,02 mg/m ³ (long- term) 0,07 mg/m ³ (short- term)	Sen
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Legal basis: EH40/2005 Workplace exposure limits. Last amended December 2011.

Comments: Short term exposure limit - a limit value above which exposure should not occur and is related to a 15-minute period, unless otherwise specified Long-term exposure limit - Measured or calculated in relation to a reference period of eight hours' time-weighted-average
Sen: sensitization by skin and by inhalation

Measuring methods: Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.

8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection: Wear safety goggles/face protection. Eye protection must conform to EN 166.

Personal protective equipment, skin protection: Wear suitable protective clothing. Wear protective gloves made of (nitrile rubber, Gloves must conform to EN 374. Breakthrough time has not been determined for the product. Change gloves often.

Personal protective equipment, respiratory protection: Wear respiratory protective equipment with filter AP2. Respiratory protection must conform to one of the following standards: EN 136/140/145.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State:	Liquid
Colour:	Brown
Odour:	Characteristic : Soil
Odour threshold:	No data
pH (solution for use):	N/A
pH (concentrate):	N/A
Melting point/freezing point:	<10°C
Initial boiling point and boiling range:	<330°C
Flash point:	>204°C
Evaporation rate:	No data
Flammability (solid, gas):	No data
Upper/lower flammability limits:	No data
Upper/lower explosive limits:	No data
Vapour pressure:	<0,01 Pa (25°C)
Vapour density:	No data
Relative density:	1,23 g/cm ³
Solubility:	hydrolysed (reacts) with water
Partition coefficient n-octanol/water:	N/A
Auto-ignition temperature:	>600°C
Decomposition temperature:	No data
Viscosity:	170-250 mPa*sek (25°C) (DIN 53018)
Explosive properties:	No data
Oxidising properties:	No data

9.2. Other information

Hardening time: 5 min (20°C)

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with alcohols. amines, strong bases, strong acids and reacts with water.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

Reacts with water under heavy heat and pressure generation.

10.4. Conditions to avoid

Avoid temperatures <15 °C. Avoid contact with moisture and water. Do not expose to heat: >230 °C.

10.5. Incompatible materials

Avoid contact with the following: alcohols (not intended). amines, strong bases, strong acids and water.

10.6. Hazardous decomposition products

Risk of inhalation of isocyanates when the product is heated to >150°C, for instance when welding on the hardened product.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral:	Ingestion is not possible, as the product hardens by contact with moisture. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. 9016-87-9: Rat: LD50 >10000 mg/kg.
Acute toxicity - dermal:	The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. 9016-87-9: Rabbit: LD50 >10000 mg/kg.
Acute toxicity - inhalation:	Harmful by inhalation. 9016-87-9: Rat, 4h: LC50 = 0,493 mg/l.
Skin corrosion/irritation:	Irritating to skin – may cause reddening. Test data are not available.
Serious eye damage/eye irritation:	Irritating to eyes. Causes a burning sensation and tearing. Test data are not available.
Respiratory sensitisation or skin sensitisation:	May cause sensitization by inhalation. Symptoms include cold, sneezing, breathing difficulties and hives. May cause sensitization by skin contact. Symptoms include reddening, swelling, blistering and ulceration – often slowly developing. Test data are not available.
Germ cell mutagenicity:	The product does not have to be classified. Test data are not unequivocal.
Carcinogenic properties:	The product contains Polymethylene Polyphenylisocyanate which is suspected of causing cancer. Carcinogenic effects detected.
Reproductive toxicity:	The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. No indication of teratogenic damage
Single STOT exposure:	Inhalation is irritating to the upper airways. Test data are not available.
Repeated STOT exposure:	May cause damage to organs through prolonged or repeated exposure. Test data are not available.
Aspiration hazard:	The product does not have to be classified. Test data are not available.
Other toxicological effects:	None known.

SECTION 12: Ecological information

12.1. Toxicity

The product does not have to be classified. Based on existing data, the classification criteria

are deemed not to have been met.

Acute toxicity:

9016-87-9:
Fish: >1000 mg/l
Crustacea: >500 mg/l
Algae: *Scenedesmus subspicatus*: 72hEC50 = 1640 mg/l

12.2. Persistence and degradability

Contain components which react with water to form a firm, insoluble reaction product that, based on available information, is non-biodegradable.

9016-87-9: Not readily biodegradable.

12.3. Bioaccumulative potential

No bioaccumulation expected.

12.4. Mobility in soil

Hardens to a firm, non-mobile mass.

12.5. Results of PBT and vPvB assessment

The substance does not meet the criteria for PBT or vPvB.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid discharge to drain or surface water. Uncleansed packaging is to be disposed of via the local waste-removal scheme. Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

EWC code: Depends on line of business and use, for instance 08 05 01 waste isocyanates

Absorbent/cloth contaminated with the product:

EWC code: 15 02 02 absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

SECTION 14: Transport information

The product is not covered by the rules for transport of dangerous goods.

14.1. UN number

-

14.2. UN proper shipping name

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14.3. Transport hazard class(es)

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14.4. Packing group

-

14.5. Environmental hazards

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14.6. Special precautions for user

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

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SECTION 15: Regulatory information

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

Special provisions:

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

SECTION 16: Other information

Changes have been made in the following sections: 2,3,16

Abbreviation explanations: PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very Persistent and Very Bioaccumulative
STOT: Specific Target Organ Toxicity

H-phrases: H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.

Training: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Other information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.

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