

SAFETY DATA SHEET

CASCOL TRÄLIM POLYURETAN



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

Product name : CASCOL TRÄLIM POLYURETAN
Product type : 1-Component Polyurethan adhesive
Product no. : 1809

Company/undertaking identification

Supplier/Manufacturer : Akzo Nobel Bygglim AB
P.O. Box 11550
100 61 Stockholm, Sweden
Tel. +00468 7434000
Fax. +00468 6436370

e-mail address of person responsible for this SDS : miljo_bygglim@akzonobel.com

Emergency telephone number (with hours of operation) : CALL 020-99 60 00
(Kemiakuten, open 24 hours 7 days a week)

2. HAZARDS IDENTIFICATION

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Carc. Cat. 3; R40
Xn; R20, R48/20
Xi; R36/37/38
R42/43

Human health hazards : Limited evidence of a carcinogenic effect. Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.

See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	CAS number	EC number	%	Classification
Methylenediphenyl diisocyanate	26447-40-5		25 - 50	Carc. Cat. 3; R40 [1] Xn; R20, R48/20 Xi; R36/37/38 R42/43
See section 16 for the full text of the R-phrases declared above				

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in section 8.

4. FIRST AID MEASURES

First aid measures

Inhalation : If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion : Seek medical attention.
Skin contact : Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. In all cases of doubt, or when symptoms persist, seek medical attention.
Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.

General information : In all cases of doubt, or when symptoms persist, seek medical attention.

See section 11 for more detailed information on health effects and symptoms.

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5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable** : In case of fire, use foam, dry chemical or CO₂.
- Not suitable** : Do not use water jet.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon oxides (CO, CO₂)
nitrogen oxides (NO, NO₂ etc.)

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Use suitable protective equipment (section 8).

Methods for cleaning up

- Small spill** : Let dry and gather up mechanically. Transfer the spilled material to an appropriate waste disposal container.
- Large spill** : Absorb with an inert material and transfer the spilled material and absorbent to an appropriate waste disposal container.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. HANDLING AND STORAGE

- Handling** : Avoid contact with skin and eyes. During work with isocyanate the workplace have to be well-ventilated. People who work with thermoplastics shall be educated to work with thermoplastics and go through a medical exam. People suffering from lungs or windpipes problems should not work with products containing isocyanates.
Work which involves thermal decomposition of the product (e.g. drilling, cutting, grinding) can liberate isocyanates. It is therefore important to use personal protective equipment and to take other necessary, technical measures to prevent exposure. Thermosetting plastic legislation, should be noticed.

- Storage** : Keep container dry. Keep container tightly closed and sealed until ready for use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
Difenylmetandiisocyanat	AFS (Sweden, 2000). TGV: 0,05 mg/m ³ TGV: 0,005 ppm KTV: 0,1 mg/m ³ 15 minute(s). KTV: 0,01 ppm 15 minute(s). NGV: 0,05 mg/m ³ 8 hour(s). NGV: 0,005 ppm 8 hour(s).

Exposure controls

- Occupational exposure controls** : Use only with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.
- General** : Design the work so direct contact is avoided.
Depending on handled quantities and working conditions, use following recommended protective equipment.
- Respiratory protection** : 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.
- Hand protection** : Wear protective gloves: Polyethene (PE) or other recommended gloves from the supplier.
- Eye protection** : Tightly-fitting goggles
- Skin protection** : Comprehensive clothes

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid.
Color	: Transparent
Flash point	: Closed cup: >100°C (>212°F)
Density	: 1,12 g/cm ³

10. STABILITY AND REACTIVITY

Chemical stability	: Stable under recommended storage and handling conditions (see section 7).
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11. TOXICOLOGICAL INFORMATION

Potential acute health effects

Inhalation	: Harmful by inhalation. Irritating to respiratory system. May cause sensitization by inhalation.
Ingestion	: Irritating to mouth, throat and stomach.
Skin contact	: Irritating to skin. May cause sensitization by skin contact.
Eye contact	: Irritating to eyes.

Potential chronic health effects

Product name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
Methylenediphenyl diisocyanate	Carc. Cat. 3; R40	-	-	-

Chronic effects	: Harmful: danger of serious damage to health by prolonged exposure through inhalation. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: May cause cancer, based on animal data. Limited evidence of a carcinogenic effect. Risk of cancer depends on duration and level of exposure.
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
Skin	: Adverse symptoms may include the following: irritation redness
Eyes	: Adverse symptoms may include the following: irritation watering redness
Other information	: There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly.

12. ECOLOGICAL INFORMATION

Environmental effects	: No known significant effects or critical hazards.
Other information	: There is no data available on the preparation itself. Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

13. DISPOSAL CONSIDERATIONS

Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal should be in accordance with applicable regional, national and local laws and regulations. Empty packages can be left for recycling. For Sweden: Akzo Nobel Bygglim AB are connected to the REPA-system (org.nr. 556026-1876). Please contact local authority for information advise on waste. Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
European waste catalogue (EWC)	: 08 05 01* waste isocyanates
Hazardous waste	:

13. DISPOSAL CONSIDERATIONS

Non cured product is Hazardous waste and should be left to destruction according to local regulations. Cured product is not dangerous waste, and can be disposed as other waste.

Sweden - Thermoset plastic waste : Yes.

14. TRANSPORT INFORMATIONInternational transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information:
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA Class	Not regulated.	-	-	-		-

PG* : Packing group

15. REGULATORY INFORMATIONEU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols :



Harmful

Risk phrases

: R40- Limited evidence of a carcinogenic effect.
R20- Harmful by inhalation.
R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R36/37/38- Irritating to eyes, respiratory system and skin.
R42/43- May cause sensitization by inhalation and skin contact.

Safety phrases

: S2- Keep out of the reach of children.
S23- Do not breathe vapor.
S24/25- Avoid contact with skin and eyes.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37- Wear suitable protective clothing and gloves.
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S46- If swallowed, seek medical advice immediately and show this container or label.
S51- Use only in well-ventilated areas.
S63- In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Contains

: Methylendiphenyl diisocyanate

Additional warning phrases

: Contains isocyanates. See information supplied by the manufacturer. Persons already sensitized 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.

Tactile warning of danger

: Yes, applicable.

National regulations

Sweden - Ordinance on Thermoset Plastics

: This legislation is applicable when working with this product.

16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3 - Sweden : R40- Limited evidence of a carcinogenic effect.
R20- Harmful by inhalation.
R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R36/37/38- Irritating to eyes, respiratory system and skin.
R42/43- May cause sensitization by inhalation and skin contact.

Full text of classifications referred to in sections 2 and 3 - Sweden : Carc. Cat. 3 - Carcinogen category 3
Xn - Harmful
Xi - Irritant

History

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Prepared by : Tornqvist Madelene

☑ Indicates information that has changed from previously issued version.