

SAFETY DATA SHEET

CASCOL TRÄLIM POLYURETAN



1. Identification of the substance/preparation and of the company/undertaking

Product name	: CASCOL TRÄLIM POLYURETAN	Supplier/Manufacturer	: Akzo Nobel Bygglim AB P.O. Box 11550 100 61 Stockholm Sweden Tel. +00468 7434000 Fax. +00468 6436370 miljo@lim.casco.se
Product number	: 1809	Emergency telephone number	: CALL 020-99 60 00 (Kemiakuten)
Material Uses	: 1-Component Polyurethan adhesive		

2. Hazards identification

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

Classification : Xn; R20
Xi; R36/37/38
R42/43

Legend : R20- Harmful by inhalation.
R36/37/38- Irritating to eyes, respiratory system and skin.
R42/43- May cause sensitization by inhalation and skin contact.

Effects and symptoms

Inhalation : Hazardous by the following route of exposure: of inhalation (lung irritant, lung sensitizer). Due to the low volatility, harmful concentrations in the air will appear preferably when heated, spraying or by dust appearance. Inhalation of high concentrations may have a primary irritant effect on respiratory tract causing dry throat, coughing, fever, ague and nausea. Asthmatic attacks with laboured breathing, shortness of breath, chest tightning and difficulty in breathing may result and may occur immediately on exposure or some hours later. When sensitized respiratory inconvenience may occur at concentrations well below the threshold limit value.

Skin contact : Irritation/Sensitization of skin contact. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.

Eye contact : Irritating to eyes.

3. Composition / information on ingredients

Chemical name*	CAS no.	%	EC number	Classification
Sweden				
methylenediphenyl diisocyanate	26447-40-5	25-50	247-714-0	Xn; R20 Xi; R36/37/38 R42/43

See section 16 for the full text of the R-phrases declared above

Legend: T=Toxic, Xn=Harmful, Xi=Irritating, F+=Extremely flammable, F=Highly flammable, N=Dangerous for the environment, C=Corrosive.

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 irritation develops.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting unless directed to do so by medical personnel.
- Skin contact** : Wipe off. Wash skin with soap and water. Get medical attention if irritation develops.
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.

5. Fire-fighting measures

Extinguishing media

- Suitable** : SMALL FIRE: Use dry chemical powder.
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

6. Accidental release measures

- Personal precautions** : Depending on the size of the waste; Comprehensive clothes Tightly-fitting goggles Boots. Use 4H gloves (with a penetration time > 4 hours) or other recommended gloves from the supplier. Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product.
- Environmental precautions and clean-up methods** : Absorb with an inert material and transfer the spilled material and absorbent to an appropriate waste disposal container. Prevent entry into sewers, basements or confined areas. Dike if necessary.

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

7. Handling and storage

- Handling** : 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.
The concentration that might cause allergic reactions is lower than the concentration that can be smelled. . Keep away from heat.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. Exposure controls/personal protection

- Engineering measures** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.
- Hygiene measures** : When handling the product good industrial hygienic standard should always be maintained. Workplace and working methods should be carried out to prevent direct contact with the product. Persons with cronic breathing problems or pronounced allergic tendency (atopi) should not be working with the product.
Thermosetting plastic legislation, should be noticed.

Occupational exposure limits :

Ingredient

methylenediphenyl diisocyanate

Occupational exposure limits

AFS 2005:17 (Sweden, 6/2005). Skin sensitizer, Inhalation sensitizer
CEIL: 0,005 ppm 5 minute(s).
TWA: 0,002 ppm 8 hour(s).

Personal protective equipment

- General** : Depending on handled quantities and working conditions, use the following recommended protective equipment.
- Respiratory system** : Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product.
- Skin and body** : Comprehensive clothes
- Hands** : Use 4H gloves (with a penetration time > 4 hours) or other recommended gloves from the supplier.
- Eyes** : Tightly-fitting goggles

9. Physical and chemical properties

- Physical state** : Liquid.
- Color** : Transparent
- Flash point** : Closed cup: >100°C (>212°F)
- Density** : 1,08 g/cm³
- Solubility** : Insoluble in the following materials: cold water, hot water.

10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to avoid** : Formation of carbon dioxide occur in contact with water.
Exothermic reaction with amines and alcohols.
Risk of explosion if damp penetrates sealed containers.(Pressure increase)
Calorific tooling (for example heating, grinding) of the glue line could liberate isocyanates fumes, that might cause respiratory problems.

11. Toxicological information

- Skin irritation** : Hazardous by the following route of exposure: of skin contact (irritant).May cause sensitization by skin contact.
- Eye irritation** : Hazardous by the following route of exposure: of eye contact (irritant).
- Sensitization** : Hazardous by the following route of exposure: of skin contact (sensitizer), of inhalation (lung sensitizer).
- Inhalation** : Hazardous by the following route of exposure: of inhalation (lung irritant, lung sensitizer). Due to the low volatility, harmful concentrations in the air will appear preferably when heated, spraying or by dust appearance. Inhalation of high concentrations may have a primary irritant effect on respiratory tract causing dry throat, coughing, fever, ague and nausea. Asthmatic attacks with laboured breathing, shortness of breath, chest tightning and difficulty in breathing may result and may occur immediately on exposure or some hours later. When sensitized respiratory inconvenience may occur at concentrations well below the threshold limit value.
- Other** : 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

- Ecotoxicity** : The product is not classified as dangerous for the environment from available data and current legislation.

13. Disposal considerations

- Remains and non-cured product** : Non cured product is Hazardous waste and should be left to destruction according to local regulations.
- Cured product** : Cured product is dangerous waste. Handle the waste according to local regulations.
- European waste catalogue (EWC)** : 08 05 01* waste isocyanates
- Packaging** : Packages with remains is handled according to above. 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.

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information:
ADR/RID Class	Not regulated.	-	-			-
IMDG Class	Not regulated.	-	-			-
IATA-DGR Class	Not regulated.	-	-			-

15. Regulatory information

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

Additional warning phrases : Contains isocyanates - See information supplied by the manufacturers.

Tactile warning of danger : Yes, applicable.

National regulations

Sweden

Hazard symbol or symbols :

Harmful

Risk phrases :

- R20- Harmful by 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 or spray.
- 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.

**Sweden - Ordinance on
Thermoset Plastics**

- : Thermosetting plastic legislation, should be noticed.

16. Other information

**Full text of R-Phrases with no.
appearing in Section 2 and 3 -
Sweden**

- : R20- Harmful by inhalation.
- R36/37/38- Irritating to eyes, respiratory system and skin.
- R42/43- May cause sensitization by inhalation and skin contact.

Other information

- : Contains isocyanates.

**Text of classifications appearing
in Section 2 and 3 - Sweden**

- : Xn - Harmful
- Xi - Irritant

History

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Notice to reader

To the best of our knowledge, the information contained herein is accurate.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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