

MATERIAL SAFETY DATA SHEET

This Safety Material Data Sheet is prepared on the base of Regulation 1907/2006/EC of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/WE and repealing Council Regulation 793/93/EEC and Commission Report 1488/94/EC and Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC i 200/21/EC.

1 IDENTIFICATION OF PREPARATION IDENTIFICATION OF MANUFACTURER AND DISTRIBUTOR

Identification of Preparation:

**INTER TROTON ONE-COMPONENT
POLYURETANE GLASS ADHESIVE FOR
AUTOMOBILE WINDOWPANES
FAST**

Application:

Professional repairs of car body repairs.

Manufacturer/Distributor:

TROTON Sp. z o. o.
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Ząbrowo 14A, Poland

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2 IDENTIFICATION OF THREATS

2.1 Classification and marking of preparation

Harmful product (Xn).

May cause the sensitization as the result of exposure of respiratory tracts (R42)

3 CHEMICAL COMPOSITION AND INFORMATION CONCERNING INGREDIENTS

3.1 Dangerous ingredients of the mixture and their classification

<u>Compound:</u>	<u>EEC No.</u>	<u>CAS No.</u>	<u>WE No.</u>	<u>% by weight</u>	<u>Symbol</u>	<u>R Phrases</u>
4-4 diphenylmethanediiso cyaniate	615-005-00-9	101-68-8	202-966-0	<0,5	Xn	NOTE C NOTE 2 R42/43
Karbon black	---	1333-86-4	215-609-9	10-25	---	---
Distillates (petroleum), hydrotreated light	649-422-00-2	64742-47-8	265-149-8	<2,5	Xn	NOTA 4 R65

4 FIRST AID MEASURES

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4.1 Instruction of proceeding, depending on the way of exposure:

Breathing and engorgement:	In case of engorgement or irritation of respiratory tracts immediately contact the physician.
Eye contact:	In case of eye contact wash eyes thoroughly with large amount of clean water and contact the physician.
Skin contact:	In case of contact with skin, remove remnants by hand and thoroughly wash using large amount of soap and water.

5 PROCEEDING IN CASE OF FIRE

There is no any extraordinary fire danger. Flash point exceeding 61°C. No spontaneous ignition.

5.1 Recommended fire fighting media

Extinguishing powder, water mist, and carbon dioxide.

5.2 Forbidden fire fighting media

None.

5.3 Dangerous products of decomposition

In case of fire, the following substances may be generated: carbon oxide, nitrogen oxides, isocyanate vapors and trace amounts of hydrocyanic acid.

5.4 Specialized fire fighting equipment

Wear specialized fire fighting equipment: protective clothes and breathing apparatus.

6 PROCEEDING IN CASE OF UNINTENTIONAL RELEASE TO ENVIRONMENT

Do not pour off to drainage system.

Clean mechanically the leakage: collect the leakage by means of wet (flammable) absorbent (e.g. sawdust, chemical binding agents, based on hydrogen calcium silicate). After one hour collect the remnants to waste container. Do not close – carbon dioxide generates. Leave in moist environment for many days, in open air within controlled area.

Subsequent disposal by burning in accordance with valid local regulations.

7 HANDLING PREPARATION AND STORE CONDITIONS

Keep the container firmly closed in dry, chilly room. Avoid direct sunlight.

Store temperature should be kept within +5°C to 28°C.

Provide adequate ventilation in work place.

Avoid skin and eyes contact.

8 EXPOSURE CONTROL AND MEASURES OF INDIVIDUAL PROTECTION

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8.1 Values of NDS¹, NDSCh², NDSP³

Compound:	CAS - nr	Norm	Volume	Unite
Dizocyjanian 4,4-metylenodifenolu	101-68-8	NDS	0,05	mg/m ³
		NDSP	0,2	mg/m ³

Legal basis:

Order of Minister of Labor and Social Policy of November 29th, 2002 on behalf of concentrations and intensity of harmful factors in working environment (Law Gazette, No. 217, item 1833, 2002 with later amendments).

8.2 Personal Protection Measures

Protection of skin:

One ought to wear protective clothes, shoes, protective coat and gloves.

Permeability tests indicate the following materials being effective as protective clothes: butyl rubber, neoprene, butadiene rubber, nitrile rubber. Thin disposable gloves should not be used for extended time.

After work thoroughly wash hands with water and soap prior to eating, drinking or smoking. Dirty clothes should be wet- or dry cleaned prior the reuse.

Protection of eyes and face:

One ought to wear protective glasses (chemicals proof).

9 PHYSICAL & CHEMICAL PROPERTIES

9.1	Physical condition:	paste;
9.2	Smell:	light smell of hydrocarbons;
9.3	pH:	-
9.4	Specific gravity:	circa 1,23 g/cm (20°C)
9.5	Vapours pressure:	-
9.6	Solubility in water:	water insoluble: reacts
9.7	Solubility in organic solvents:	absolute
9.8	Boiling point:	>190°C
9.9	Viscosity:	circa 100000 cps
9.10	Flash point:	>100°C

10 STABILITY AND REACTIVITY

The product is stable if handled and stored according to handling and storage directions.

¹ NDS –The Maximum Permissible Concentration

² NDSCh -The Maximum Permissible Momentary Concentration – the average value of concentration which should not result the negative changes of worker's health, if exists in work environment not longer than 15 minutes and not more frequently than two times per working shift in time interval not shorter than one hour.

³ NDSP -- The Maximum Permissible Threshold Value of concentration, which, due to threat for worker's health or life can not be exceeded in working environment in any moment.

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10.1 Conditions to be avoided:

Overheating should be avoided.

10.2 Reactivity:

MDI⁴ based product react with many substances through increased temperature. Among these substances there are substances, based on chemicals (e.g. caustic soda), ammonia, primary and secondary amines, alcohol, water and acids. MDI based products are unmixable in water, because their specific gravity is higher than water one and they settle in the bottom, slowly reacting on surface. During the reaction, the stable polyurethane layer is created which is unmixable with water and releases carbon dioxide.

11 TOXICOLOGICAL INFORMATION

11.1 Engorgement: Toxicity by single engorgement is rather low. LD50⁵ in oral administration for rats is > 2000 mg/kg (body weight)

11.2 Eyes contact: May be the reason of sensitization.

11.3 Skin contact: Sensitiveness of skin may appear after prolonged or repeated contact.

12 ENVIRONMENTAL INFORMATION

Information within this range is estimated in complete and wide manner, based on data concerning the similar materials.

Mobility and bioaccumulation potential:

Mobility in environment is limited to creation of unmixable polymers. Unmixable polyurethane layer, harmless from chemical point of view is created in moist environment. Volatilization from water to atmospheric air has not been acknowledged.

Disintegration:

Biodegradation of polyurethane, tested in static laboratory conditions, has been estimated as low.

Toxicity in water:

It is estimated that this substance is not toxic for fish, crustaceans and for bacteria.

The product is not biodegradable.

13 HADLING WITH WASTES

Recommended method of disposal is burning in controlled and approved conditions, e.g. by use of special crematory for burning the dangerous chemical wastes. Small amounts of waste may be treated by means of polyol in purpose of neutralization, prior the disposal. Empty containers should be stored in

⁴ MDI - Methylene Diphenylene Diisocyanate

⁵ LD50 - (Lethal Dose 50) is the dose of a chemical which kills 50% of a sample population. In full reporting, the dose, treatment and observation period should be given.

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open air in order to complete the polymerization, and after that they should be delivered to specialized firms dealing with recycling.

Code of waste:

08 04 10 – Waste glues and sealants, different than mentioned in 08 04 09.

Legal basis:

Act, dated April 27th, 2001 about wastes (Law Gazette, No. 62, item 628, 2001);

Order of Minister of Environment, dated September 27th, 2001, on behalf of catalog of wastes (Law Gazette No. 112, item 1206, dated October 8th, 2001);

Act, dated May 11th, 2001 on behalf of packing and pack wastes (Law Gazette No. 63, item 638, 2001);

Act, dated December 19th, 2002 on behalf of changes of act about wastes and changes in other acts (Law Gazette No. 7, item 78, 2003);

Act, dated July 29th, 2005 on behalf of changes of act about wastes and changes in other acts (Law Gazette No. 175, item 1458, 2005)

14 INFORMATION ABOUT TRANSPORT

Road and railway transport:

ADR/RID:

Product is not assumed as dangerous one;

Name of product:

Polyurethane glue for fastening of car windshields;

Sea transport:

IMDG

Product is not assumed as dangerous one;

N. ONU

Pollution of water:

Product is not dangerous one;

Exact technical name:

Polyurethane gluey compound;

Air transport:

CIAO/IATA

Product is not assumed as dangerous one;

N. ONU

Exact technical name:

Polyurethane gluey compound;

Further information:

Product is not dangerous for transport.

Polyurethane glue for fastening of windshields does not generate vapors or dust. To be transported in dry environment.

15 INFORMATION CONCERNING THE LAW REGULATIONS

15.1 Packages

Packages marking:

Sticker containing:

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INTER TROTON ONE-COMPONENT POLYURETANE GLASS ADHESIVE FOR AUTOMOBILE WINDOWPANES ONE HOUR FAST

MARKING

Xn



HARMFUL

Phrases indicating
thread type:

R 42/43

May cause sensitization
by inhalation and skin contact

Phrases indicating conditions
of safe use:

S 2 Keep out of the reach of children
S 24 Avoid contact with the skin
S 36/37 Wear suitable protective clothing and
gloves
S 46 If swallowed, seek medical advice
immediately and show container or label
S 51 Use only in well-ventilated areas

Contains: izocyanates

„Contains isocyanates
Become familiar with instruction delivered by manufacturer”

VOC=10g/l
2004/42/WE IIB(e) (840)10

15.2 Other regulations, if apply:

- Act on behalf of substances and chemical preparations, dated January 11th, 2001 (Law Gazette No. 11, item 84; No. 100, item 1085; No. 123, item 1350; No. 127, item 1367 with amendment , dated July 5th, 2002 (Law Gazette No. 142, item 1187);
- Order of Minister of Health, dated July 3rd, 2002 on behalf of Sheet of characteristic of dangerous substance and dangerous preparation (Law Gazette No. 140, item 1171);
- Order of Minister of Health, dated December 14th, 2004 which changes the order on behalf of Sheet of characteristic of dangerous substance and dangerous preparation (Law Gazette No. 2, item 8);
- Order of Minister of Health, dated September 28th, 2005 on behalf of list of dangerous substances with their classification and marking (Law Gazette No. 201, item 1674);
- Order of Minister of Health, dated September 2nd, 2003 on behalf of markings on packing of dangerous substances and chemical preparations (Law Gazette No. 173, item 1679 with later amendments);

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- Order of Minister of Health, dated September 2nd, 2003 on behalf of criteria and methods of classification of substances and chemical preparations (Law Gazette No. 171, item 1666 with later amendments);
- Act, dated April 27th, 2001 about waste (Law Gazette No 62, item 628) and Order of Minister of Environment, dated September 27th, 2001 on behalf of catalog of waste (Law Gazette No. 112, item 1209);
- Act, dated July 29th, 2005 on behalf of changes of Act about wastes and about the changes of some other acts (Law Gazette No. 175, item 1458, 2005);
- Order of Minister of Labor and Social Policy, dated November 29th, 2002 on behalf of maximum permissible concentrations and intensity of harmful factors in work environment (Law Gazette No 217, item 1833, 2002 with later amendments).
- Ordinance of Minister for Labour and Social Policy of 29th November 2002 in the Matter of Admissible Concentrations and Intensity of Factors Harmful for Health in Workplace Environment (Official Journal No 217 Pos. 1833, 2002 with subsequent modifications)
- Ordinance of Minister for Economy of 16th January 2007. In the Matter of Detailed Requirements for Limitation of Emission of Volatile Organic Compounds due to the use of Organic Solvents in Certain Paints and Varnishes and Vehicle Refinishing Products. 72)

16 OTHER INFORMATION

The purpose of information stated in this sheet is to describe the product only from the point of view of work safety requirements. User of this product bears the responsibility for making conditions of safe application of product and he is solely responsible for results of improper use of this product.

R phrases (indicating type of threat) used in Section 2 of Characteristic Sheet):

- | | |
|--------|---|
| R42/43 | Product may cause sensitization if respiratory tracts are exposed and in contact with skin. |
| R 65 | Harmful: may cause lung damage if swallowed |