

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/E

1 IDENTIFICATION OF PREPARATION IDENTIFICATION OF MANUFACTURER AND DISTRIBUTOR

Identification of Preparation:

**INTER TROTON
HARDENER TO ACRYL FILLER 1:5**

Application:

Professional repairs of car body repairs.

Manufacturer/Distributor:

TROTON Sp. z o. o.
78-120 Gościno
Ząbrowo 14A, Poland

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2 IDENTIFICATION OF THREATS

2.1 Classification and marking of preparation

Product extremely flammable (R10).
Harmful product (Xn). Harmful by inhalation, in contact with skin and if swallowed (R20/21/22).
Irritating to eyes and skin (R36/38).
May cause sensitization by skin contact (R43).
Repeated exposure may cause skin dryness or cracking (R66).

3.2 Fire hazards

Highly flammable, avoid contact with flame and strong oxidants

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>
1,6-Hexamethylene diisocyanate homopolymer	-----	28182-81-2	-----	32.0-33.0	Xi	43
2-butoxylene ethanole	603-014-00-0	111-76-2	203-905-0	25.0-26.0	Xn:Xi	20/21/22-

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ethylobenzene	601-023-00-4	100-41-4	202-849-4	0.58-0.63	F;Xn	36/38 11-20
1-methoxy -2-propyl- acetate	607-195-00-7	108-65-6	203-603-9	15.0-19,5	Xi	10-36
butyl acetate	607-025-00-1	123-86-4	204-658-1	6.0-8.0	-----	10-66-67
Xylene	601-022-00-9	1330-20-7	215-535-7	14.0-15.0	Xn; Xi	10-20/21-38

4 FIRST AID MEASURES

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

Inhalation:	remove the affected person to fresh air, keep calm, cover with a blanket. If shortness of breath occurs, give oxygen. If breathing has stopped, administer artificial respiration and get medical advice.
Eye contact:	remove contact lenses. Flush immediately with plenty of water during 15 minutes, holding the eyelids wide open. Consult an ophthalmologist.
Skin contact:	immediately flush with plenty of water, take off all contaminated clothing, wash skin with plenty of water and soap. In case of any irritation, consult a doctor.
Ingestion:	If swallowed, do not induce vomiting because of risk of inhalation into lungs. Seek medical advice immediately.
General recommendations:	take normal precautionary measures applied during work with chemicals. In case of any alarming symptoms, seek medical advice.
Notes for doctors:	no special antidote, apply symptomatic treatment.

5 PROCEEDING IN CASE OF FIRE

5.1 Recommended extinguishing media

Foam, carbon dioxide or dry chemicals. Keep tanks exposed to fire cool by continuous spraying with water.

5.2 Prohibited extinguishing media

Strong water jets.

5.3 Hazardous decomposition products

Combustion forms carbon oxide and toxic fumes.

5.4 Special fire-fighting equipment

Gas-tight antistatic clothing, autonomous breathing apparatus. Prevent penetration into ground and surface water. Prevent penetration of fire-extinguishing media into ground and surface water. Collect fire-extinguishing media separately; do not discharge into sewage system.

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6 PROCEEDING IN CASE OF UNINTENTIONAL RELEASE TO ENVIRONMENT

6.1 Protection of humans

Precautionary measures:

Remove all sources of ignition, extinguish flames, protect sewage outlets, dilute vapours with water spray. Remove leakage – close fluid inlet, seal damaged container and place in a substitute container. Secure adequate ventilation. Wear protective clothing and gloves. Do not inhale vapours.

6.2 Protection of environment

Prevent penetration into sewage system, soil, underground and surface water. In case the product penetrates into sewage system or water, notify applicable authorities immediately.

6.3 Methods of neutralisation, collection and environment cleaning

Absorb spilled product with chemically neutral absorbing material (sand, diatomaceous earth), transfer to tight containers and deliver to authorised disposal agent.

7 HANDLING PREPARATION AND STORE CONDITIONS

7.1 Handling – precautionary measures

Use only in thoroughly ventilated locations with exhaust ventilation. Keep away from heat and sources of ignition. It is recommended to take precautionary measures to avoid skin and eye contact. Do not inhale vapours. Plants, armatures and tanks must be always sealed tightly. Do not eat, drink or smoke when using.

7.2 Storage

Protect against sunlight, store at temperature below 20°C. Keep in cool, dry and well-ventilated location. Keep away from the reach of children. Do not store with self-igniting substances and peroxides. Store in original, properly identified containers, tightly sealed. Do not smoke, eat, use open fire and sparking tools in a storehouse.

8 EXPOSURE CONTROL AND MEASURES OF INDIVIDUAL PROTECTION

8.1 Exposure limitation technical measures

Spot ventilation exhausting vapours from emission places and general ventilation required. Suction vents of spot ventilation at the working level or below. Exhaust vents of general ventilation in the upper part of a room and at the floor level. Do not use close to sources of heat and ignition.

8.2 Values of NDS¹, NDSch², NDSP³

<u>Component</u>	<u>CAS No.</u>	<u>Standard</u>	<u>Value</u>	<u>Unit</u>
2-butoxylene ethanole	111-76-2	NDS	98	mg/m ³

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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butyl acetate	123-86-4	NDSch	200	mg/m ³
		NDS	200	mg/m ³
xylene	1330-20-7	NDSch	950	mg/m ³
		NDS	100	mg/m ³
ethylobenzene	100-41-4	NDSch	---	mg/m ³
		NDS	100	mg/m ³
1-methoxy	108-65-6	NDSch	350	mg/m ³
-2-propyl- acetate		NDS	260	mg/m ³
		NDSch	520	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).

8.3 Personal protection

Respiratory protection: if exposure is likely to exceed the occupational exposure use approved respiratory protective equipment.

Hands and skin: impervious gloves and protective clothing.

Eyes: protective goggles.

9 PHYSICAL & CHEMICAL PROPERTIES

9.1	Physical condition/form colour smell:	liquid colourless ; typical of solvents .
9.2	Boiling point:	126-145°C
9.3	Melting point:	-25°C
9.4	Vapours pressure:	9,0 mbar in 20°C
9.5	Solubility in water and other solvents:	solubility limited
9.6	Solubility in organic solvents:	solubility in butyl acetate and xylene
9.7	Specific gravity:	circa 0,98 g/cm ³
9.8	pH:	-
9.9	Ignition temperature:	23°C
9.10	Explosive properties: limits :	not data available
9.11	Autoignition point:	315°C
9.12	Flammable:	liquide, flammable
9.13	Explosive properties: limits :	not explosive,not concern
9.14	Oxidizing properties:	not oxidizing ,not concern
9.15	Distribution ratio 1-n-octanol/water:	not data available
9.16	Other properties:	-

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10 STABILITY AND REACTIVITY

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

10.1 Conditions to be avoided(which cause dangerous reactions):

High temperature, fire.

10.2 Substances cause dangerous:

Strong oxidants.

10.3 Dangerous products of disintegration:

In condition of high temperature and fire can arise carbon oxides and toxical smokes.

11 TOXICOLOGICAL INFORMATION

11.1 Health results in case of acute exposition Toxicological data(

Component	CAS No.	Dose:	Value:	Unit
1-methoxy-2-propyl-acetate	108-65-6	LD50(rat,orally)	8532	mg/kg
		LD50(rat, skin)	>5000	mg/kg
		LD50(rat ,inhalation)	>23,8	mg/l/6h
Butyl acetate	123-86-4	LD50(rat,orally)	14000	mg/kg
		LD50(rat ,skin)	>5000	mg/kg
		LD50(rat ,inhalation)	>51	mg/l/4h
2-butoxylene ethanole	111-76-2	LD50(rat,orally)	560	mg/kg
		LD50 (rat, skin)	490	mg/kg
		LD50(rat ,inhalation)	2200	mg/m ³ /8h
Xylene	1330-20-7	LD50(rat,orally)	4300	mg/kg
		LD50(rat, skin)	22100	mg/m ³ /4h

11.2 Health results in case of chronic exposition

Persons, who are chronically exposed to risk of breathing the air contaminated by vapors or dust originated from this preparation, may complain for irritation of mucous membrane, headaches and vertigousness, excitement or drowsiness, problems with alimentary system, exsiccation, skin fissuring and allergies.

11.3 Health results in case of local exposition

Breathing: in mild cases there appears the cough, irritations of mouth and throat, sometimes the pain of chest. In more acute cases - headache and vertigousness, fatigue feeling, myasthenia, drowsiness and in exceptional cases – the black-out.

Eye contact: preparation acts gratingly on eyes, causing their redness, pain and asthenopia. If drops of products get in eyes, they may cause the impairment of sight and allergic reactions.

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Skin contact: preparation may cause the irritation. In case of impaired skin there may happen the sorption to blood. Long or repeated contact of preparation with skin may result in its drying-up and erythroderma. Irritations and redness may also happen.

12 ENVIRONMENTAL INFORMATION

12.1 Ecotoxicity

Component	Substance easily subjected to biodegradation		
1-metoxo-2 propyl acetate	108-65-6	LC50(96h) - fish (<i>Oncorhynchus mykiss</i>)	100-180 mg/l
		EC50(48h) – spineless animals (<i>Daphnia manga</i>)	>500 mg/l
		Effect on active sediment: at proper entering of small concentrations to biologically adopted sewage treatment plants one should not expect any perturbations in the process of active sediment decomposition.	
Butyl acetate	123-86-4	LC50-fish (<i>Leuciscus idus</i>)	62 mg/l/96h
		EC50-invertebrates (<i>Daphnia manga</i>)	73 mg/l/24h
		Aqua plants (<i>Scenedesmus subspicatus</i>)	675 mg/l/72h
		EC10 – microorganisms/effectiveness into active sediment (<i>Pseudomonas putida</i>)	>115 mg/l/16h
2-butoxylene ethanole	111-76-2	LC50-fish (<i>Leuciscus idus</i>)	>1000 mg/l
		EC50-invertebrates (<i>Daphnia manga</i>)	1815 mg/l/24h
		Aqua plants (<i>Scenedesmus subspicatus</i>)	
		EC10 – microorganisms/effectiveness into active sediment (<i>Pseudomonas putida</i>)	>700 mg/l/16h
		Effect on active sediment: at proper entering of small concentrations to biologically adopted sewage treatment plants one should not expect any perturbations in the process of active sediment decomposition.	
Xylene	1330-20-7	LC50-fish(<i>Salmo gairdneri</i>)	3,77 mg/l/96h
		IC50-bakterie	>100 mg/l
		EC50-algae	10-100 mg/l/96h

12.2 Persistence and degradability

Component	CAS No.	Data concerning the elimination:
Butyl acetate	123-86-4	Investigation method: OECD 301D; 92/69/EEC, V, C.4 E, active sediment; Analytical method: BOD for the theoretical oxygen demand (ThOD); Degree of elimination: >90% (28d) Evaluation: Easy biodegradation (according to OECD criteria)
1-metoxo-2-propyl acetate	108-65-6	Investigation method: OECD 302B; Analytical method: DOC reduction; Degree of elimination: >90% Evaluation: can be easily eliminated from water.
2-butoxylene ethanole	111-76-2	Investigation method: OECD 302B; ISO 9888: 88/302EEC, Part C, Analytical method: DOC reduction;

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Degree of elimination: >90%

Evaluation: Easy biodegradation .

12.3 Other harmful effects

Component	CAS No.	
Butyl acetate	123-86-4	Organically bounded halogen subjected to adsorption (AOX); Product does not contain organically bounded halogen.
2-butoxylene ethanole	111-76-2	Organically bounded halogen subjected to adsorption (AOX); Product does not contain organically bounded halogen.

13 HADLING WITH WASTES

The way of excess amount removal or waste disposal

Do not dispose with communal wastes; do not pour to drainage system. Burn in specially adapted installations or deliver to authorized waste collector.

08 01 Post production, preparation, handling and post use waste, lacquer and paint disposal.

08 01 11* Lacquer and paint waste, containing organic solvents or another dangerous substances – dangerous waste.

The way of used packing disposal

Code of waste:

15 01 10* Packing containing residues of dangerous substances or packing contaminated with dangerous substances.

Used packing should be delivered to authorized collector who has due permission within the range of waste management and especially in dangerous waste management.

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)

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14 INFORMATION ABOUT TRANSPORT

Road and railway transport:

ADR/RID:	UN 1263
Name of product:	Paints and materials realated to paints
Class:	3
Packing group:	III
Label :	3
Identification number of danger:	30
Sea transport:	not data available

15 INFORMATION CONCERNING THE LAW REGULATIONS

15.1 Packages

Packages marking:
Sticker containing:

INTER TROTON HARDENER TO ACRYL FILLER 1:5

MARKING

Xn



HARMFUL

Phrases indicating
thread type:

R10 Flammable
R20/21/22 Harmfulby inhalation and in contact with
skin and if swallowed.
R36/38 Irritating to eyes and skin .
R43 May cause sensitization by skin contact.
R66 Repeated exposure may cause skin dryness or
cracking

Phrases indicating conditions
of safe use:

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S1/2 Keep locked up and out of the reach of children.

S3/7 Keep container tightly closed in a cool place

S23 Do not breathe gas/fumes/vapour/spray.

S24/25 Avoid contact with the skin and eyes.

S36 Wear suitable protective clothing.

gloves and eye/face protection.

S51 Use only in well-ventilated areas.

Contains: xylene, 2-butoxylene etanole, isocyanate

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);
- 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

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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):

R10	Flammable .
R11	Highly flammable.
R20	Harmful by inhalation.
R20/21/22	Harmful by inhalation and in contact with skin and if swallowed.
R36	Irritating to eyes.
R38	Irritating to skin
R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.