

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 MASTER
HARDENER TO FILLER MF 560 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

Harmful product (Xn) . R20/21 : Harmful by inhalation and in contact with skin. Irritating to eyes.(R36).

R42/43 : May cause sensitization by inhalation and skin contact. Repeated exposure may cause skin dryness or cracking(R66).

3.2 Fire hazards

Liquid,extremely flammable .

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>
butylacetate	607-025-00-1	123-86-4	204-658-1	12-14	---	10-66-67
Xylene (isomers mixture)	601-022-00-9	1330-20-7	215-535-7	14-15	Xn; Xi	10-20/21-38
Hexamethylene diisocyanate, oligome	---	28182-81-2	---	29-31	Xi	43
M-tolylidene	615-006-00-4	26471-62-5	247-722-4	0,03-0,15	T+; Xi	26-36/37/38-

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diisocyanate						40-42/43-52/53
Ethylbenzene	601-023-00-4	100-41-4	202-849-4	1-2	F; Xn	11-20
2-methoxy-1-methylethyl acetate	607-195-00-7	108-65-6	203-603-9	20-21	Xi	10-36

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, water mist.

5.2 Prohibited extinguishing media

Strong water jets.

5.3 Hazardous decomposition products

Combustion forms carbon oxide.

5.4 Special fire-fighting equipment

Gas-tight antistatic clothing, autonomous breathing apparatus.

5.5 Other information

Keep tanks exposed to fire cool by continuous spraying with water.

6 PROCEEDING IN CASE OF UNINTENTIONAL RELEASE TO ENVIRONMENT

6.1 Course of action in case of leakage:

Stop the leakage. If the leakage occurs in closed room – switch off all potential sources of ignition and assure the adequate ventilation. Avoid breathing the vapors. Diffused product should be collected by

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means of adequate absorbent and place it into closed containers. The large leakages should be handled by team of specialists. Large leakages in open areas should be covered by the foam in order to reduce the risk of ignition. Sink holes should be protected against the leakage in order to minimize the risk of environment contamination. Do not flush the product into drainage system. In case of leakage on the surface of water, avoid the dissemination of product by means of protective water barriers. Collect the product from the water surface and secure the areas covered by environment protection and water intakes.

6.2 Individual protection means:

In case of large leakages, use the chemical resistant gloves and shoes; use the protection means of respiratory tracts and tight protective goggles.

6.3 Other threats

Vapors are heavier than the air and may displace to distant sources of ignition (e.g. along the draining channels and in cellars).

7 HANDLING PREPARATION AND STORE CONDITIONS

Product is designed for the professional use in the industry. It should be used in accordance with its designation and operating instruction. Avoid direct contact with skin and eyes and after each contact wash hands thoroughly.

The properly marked packing is to be stored closed, in place with adequate ventilation, away from sources of ignition. Packing should not be allowed to contact with hot surfaces. Avoid direct sunlight. Vapors of solvents can create the explosive mixture with air.

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>
butyl acetate	123-86-4	NDS	200	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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		NDSCh	950	mg/m ³
		NDSP	-	mg/m ³
Xylene (isomers mixture)	1330-20-7	NDS	100	mg/m ³
		NDSCh	-	mg/m ³
		NDSP	-	mg/m ³
Etylobenzen	100-41-4	NDS	100	mg/m ³
	M-tolylidene diisocyanate	26471-62-5	NDS	0,035
		NDSCh	0,07	mg/m ³
2-methoxy-1-methylethyl acetate	108-65-6	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
charakteriscic.
- 9.2 Boiling point:** 126-145°C
- 9.3 Solubility in water :** unsolibilited, reaction with water
- 9.4 Ignition temperature:** 23°C
- 9.5 Autoignition point:** 315°C
- 9.6 Explosive properties: limits% of :**
volume: not available
- 9.7 Vapours pressure** 9,0 mbar w 20°C
- 9.8 Specific gravity (20°C) g/ cm³ :** not available
- 9.9 The height of separated layer of solvent:** non
- 9.10 Outflow time determinated by cup**
ISO Φ 4 mm, s: indeterminable

10 STABILITY AND REACTIVITY

10.1 Stability

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

10.2 Dangerous products of thermal decomposition:

Can arise toxic fumes and gases, carbon oxides and dioxides.

10.3 Dangerous reactions:

Reaction with water, product of reaction CO₂

Closed container – blow up as effect of pressure increase inside.

11 TOXICOLOGICAL INFORMATION

Health results in case of local exposition

<u>Składnik</u>	<u>CAS-nr</u>	<u>Dawka</u>	<u>wartość</u>	<u>Jednostka</u>
2-methoxy-1-methylethyl acetate	108-65-6	LD50(szczur, doustnie)	8532	mg/kg
		LD50(szczur, skóra)	>5000	mg/kg
		LD50(szczur, inhlacja)	>23,8	mg/l/6h
butyl acetate	123-86-4	LD50(szczur, doustnie)	14000	mg/kg
		LD50(szczur, skóra)	>5000	mg/kg
		LD50(szczur, inhlacja)	>51	mg/l/4h
Xylene (isomers mixture)	1330-20-7	LD50(szczur, doustnie)	4300	mg/kg
		LD50(szczur, skóra)	22100	mg/m ³ /4h

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.

Skin and body:

Protective clothes made of dense fabric and protective apron.

Collective protection:

Ventilation in working posts in closed areas;

Other information:

Industrial hygiene: General regulations concerning industrial hygiene are valid. One ought to avoid the direct contact of body and respiratory tract with the enamel. Contaminated clothes should be replaced.

12 ENVIRONMENTAL INFORMATION

12.1 Ecotoxicity

Component	Substance easily subjected to biodegradation			
1-metoxy-2 propyl acetate	108-65-6	LC50(96h) - fish (Oncorhynchus mykiss)	100-180	mg/l
		EC50(48h) – spineless animals (Daphnia magna)	>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.

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xylene	1330-20-7	LC50-fish(Salmo gairdneri)	3,77	mg/l/96h
		IC50-bakterie	>100	mg/l
		EC50-algae	10-100	mg/l/96h
Butyl acetate	123-86-4	LC50-fish (Leuciscus idus)	62	mg/l/96h
		EC50-invertebrates (Daphnia magna)	73	mg/l/24h
		Aqua plants (Scenedesmus subspicatus)	675	mg/l/72h
		EC10 – microorganisms/effectiveness into active sediment (Pseudomonas putida)	>115	mg/l/16h

12.2 Persistence and degradability

Component	CAS No.	
Butyl acetate	123-86-4	Data concerning the elimination: 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.

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.

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.
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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)

14 INFORMATION ABOUT TRANSPORT

Product have to be stored and transported as instructed in norm PN-89/C-81400 and actual transport regulation

Road and railway transport:

ADR/RID:	UN 1263
Name of product:	Paints and materials realated to paints
Class:	F1
Packing group:	III
Identification number of danger:	30
Sea transport:	not data available

Air tansport ICAO-TI and IATA-DGR:

Un Number :	1263
Class:	3
Hazard label:	Flammable liquid
Packaging group:	III
ERG Code:	3L
Proper shipping name:	Paint
Description:	(including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liguid lacquer base)

15 INFORMATION CONCERNING THE LAW REGULATIONS

15.1 Packages

Packages marking:
Sticker containing:

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MARKING

Xn



HARMFUL

Phrases indicating
thread type:

R20/21 : Harmful by inhalation and in
contact with skin.

R36 Irritating to eyes

R42/43 : May cause sensitization by
inhalation and skin contact.

R66 Repeated exposure may cause skin
dryness or cracking

Phrases indicating conditions
of safe use:

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

S36 : Wear suitable protective clothing

S 23 Do not breathe gas/fumes/vapour/spray.

S24/25 Avoid contact with skin and eyes.

S 51 Use only in well-ventilated areas.

Contains: Xylene (isomers mixture),M-tolyldiene diisocyanate, Hexamethylene diisocyanate, oligome

Contains isocyanates. Pleas regard the producer's instructions.

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);

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- 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

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 .

R20/21 Harmful by inhalation and in contact with skin;

R38 Irritating to skin

R43 : May cause sensitization by skin contact.

R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R42/43 : May cause sensitization by inhalation and skin contact.

R40 : Limited evidence of a carcinogenic effect.

R36/37/38 : Irritating to eyes, respiratory system and skin.

R26 : Very toxic by inhalation.