

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: ECO-LINE PINUS HARDENER VHS 1:2 STANDARD

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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Date of preparation: September 10th, 2007

Revision date: October 7th, 2007

2 IDENTIFICATION OF THREATS

2.1 Classification and marking of preparation

Product extremely flammable (R10).
Irritating product (Xi).
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>
butyl acetate	607-025-00-1	123-86-4	204-658-1	31-32		10-66-67

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Hexamethyl-1,6-diisocyanate homopolymer	---	28182-81-2	---	64-65	Xi	43
Ketone metyl-n-amyl	606-024-00-3	110-43-0	203-767-1	3-5	Xn	10-20/22
Hexamethyl-1,6-diisocyanate	615-011-00-1	822-06-0	212-485-8	<0,2	T; Xi	23-36/37/38-42-/43

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.

6 PROCEEDING IN CASE OF UNINTENTIONAL RELEASE TO ENVIRONMENT

6.1 Protection of humans

Precautionary measures:

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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>
butyl acetate	123-86-4	NDS	200	mg/m ³
		NDSCh	950	mg/m ³
Ketone metyl-n-amyl	110-43-0	NDS	238	mg/m ³
		NDSCh	475	mg/m ³

Legal basis:

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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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:	124-128°C
9.3	Melting point:	<-50°C
9.4	Vapours pressure:	no data
9.5	Solubility in water:	insoluble
9.6	Solubility in organic solvents:	soluble
9.7	Specific gravity:	circa 1.0567 g/cm ³ (20)
9.8	pH:	-
9.9	Ignition temperature:	25°C
9.10	Explosive properties: limits :	not data available
9.11	Autoignition point:	145°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:	-

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

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11.1 Health results in case of acute exposition Toxicological data(butyl acetate)

Component	CAS. No	dose	value	unit
Butyl acetate	123-86-4	LD ₅₀ (rat,orally)	14000	mg/kg
		LD ₅₀ (rat skin)	>5000	mg/l/4h
		LD ₅₀ (rat inhalation)	>51	mg/kg
Ketone metyl-n-amyl	110-43-0	LD50(rabbit,skin)	12,6	ml/kg
		LD50(mouse, orally)	730	mg/kg
		LD50(rat, orally)	1670	mg/kg
		LDL0(rat, inhalation)	4000	ppm/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, exciccation, 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.

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	CAS No.	Dose	CAS No.	Value	Dose	Unit	Value
Butyl acetate	123-86-4	LD50 fish(Leuciscus idus)		62		mg/1/96h	
		EC50-crustacea (Daphnia manga)		73		mg/1/24h	
		Aqua plants (Scenedesmus subspicatus)		675		mg/1/72h	
		EC10 – microorganisms/effectiveness into active sediment (Pseudomonas putida)		>115		mg/1/16h	
Ketone metyl-n-amyl	110-43-0	Data concerning oxygen					

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demand:
BZT-5: 1,770 mg/g; BZT-20:
2,000 mg/g; ChTZ: 2,420
mg/g
Data concernig harmful
action on water environment:
96h LC-50 (pimephales
promelas): 131 mg/l;
48h EC-50 (cerodaphnia
dubia): >90 mg/l (the highest
measured concentration)

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)

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.

15 01 10* Wastes contain isocyanates – 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:

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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:	UN 1263
Name of product:	Paints
Class:	3
Packing group:	III
Label :	3
Identification number of danger:	30

Sea transport:

IMDG	not data available
Exact technical name:	Acryl filler

Air transport:

CIAO/IATA	
N.ONU	
Exact technical name:	not data available

Further information:

15 INFORMATION CONCERNING THE LAW REGULATIONS

15.1 Packages

Packages marking:
Sticker containing:

ECO-LINE PINUS HARDENER VHS 1:2 STANDARD

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MARKING

Xi



IRRITATING

Phrases indicating
thread type:

R10 Flammable
R43 May cause sensitization by 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.
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.
S46 If swallowed, seek medical advice immediately
and show container or label
S51 Use only in well-ventilated areas.

Contains: Hexamethyl-1,6-diisocyanate homopolymer; butyl acetate

Contains isocyanates. Please 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);
- 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):

R10	Flammable .
R23	Toxic by inhalation
R36/37/38	Irritating to eye, respiratory system and skin
R43	May cause sensitization by skin contact
R42/43	May cause sensitization by inhalation and skin contact
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.