

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 ACER PUTTY

Application:

Professional repairs of car body repairs.

Manufacturer/Distributor:

TROTON Sp. z o. o.

tel/fax +48 94 35 126 22

78-120 Gościno

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Ząbrowo 14A, Poland

e-mail: troton@troton.com.pl

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Date of preparation: January 7th, 2006

Revision date: October 7th, 2007

2 IDENTIFICATION OF THREATS

2.1 Classification and marking of preparation

Harmful product (Xn).

Irritating to eyes and skin(R36/38)

Repeated exposure may cause skin dryness or cracking (R66)

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> |
|------------------|----------------|----------------|---------------|--------------------|---------------|------------------|
| Styrene | 601-026-00-0 | 100-42-5 | 202-851-5 | 16.0-17.0 | Xn; Xi | 10-20/36-38 |

4 FIRST AID MEASURES

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

4.2 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.

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| | |
|--------------------------|---|
| 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 systems.

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

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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 reduction technological methods

A local ventilation system to remove vapors from vapor emission areas and a general ventilation system in the room are needed. The exhaust vents of the local ventilation system are to be installed by or below the working surface. The exhaust vents of the general ventilation system are to be installed in the upper part of the room or by the floor. During use keep away from heat and sources of ignition.

8.2 Values of NDS¹, NDSch², NDSP³

| <u>Component</u> | <u>CAS No.</u> | <u>Standard</u> | <u>Value</u> | <u>Unit</u> |
|------------------|----------------|-----------------|--------------|-------------------|
| Styrene | 100-42-5 | NDS | 50 | mg/m ³ |
| | | NDSch | 200 | 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 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/form colour smell: | liquid of high viscosity; yellow ; typical of styrene. |
| 9.2 Boiling point: | 146°C |
| 9.3 Melting point: | -30°C |
| 9.4 Vapours pressure: | 7,3 hPa in 20°C |
| 9.5 Solubility in water : | not solubilited |
| 9.6 Solubility in organic solvents: | not solubilited |

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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| | | |
|-------------|---------------------------------------|----------------------------|
| 9.7 | Specific gravity: | circa 1.87-1,91 g/cm (20) |
| 9.8 | pH: | - |
| 9.9 | Ignition temperature: | 32°C |
| 9.10 | Explosive properties: limits : | not data available |
| 9.11 | Autoignition point: | 490°C |
| 9.12 | Explosive properties: limits : | not explosive,not concern |
| 9.13 | Oxidizing properties: | not oxidizing ,not concern |

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, naked flames.
- 10.2 Substances cause dangerous:**
Strong oxidations.
- 10.3 Dangerous products of disintegration:**
In condition of high temperature and fire can arise carbon oxides and toxical smokes.

11 TOXICOLOGICAL INFORMATION

Hazards for a human being: inhalation, intake, skin contact, eye contact

General information: lasting contact causes eye, skin and mucous membrane irritation.

Toxicological data(for styrene)

| CAS. No | dose | value | unit |
|-----------------|-----------------------------------|--------------|-------------|
| 100-42-5 | LD ₅₀ (rat,orally) | 5000 | mg/kg |
| | LD ₅₀ (rat inhalation) | 24000 | mg/m3 (4h) |
| | TCL0 (human, inhalation) | 2600 | mg/m3 |
| | LCL0 (human, inhalation) | 43000 | mg/m3 |

Local effects:

Airway: mild cases-cough, mouth and throat irritation, sometimes chest pain; severe cases-head aches and vertigo, tiredness, weakening of muscles, drowsiness and, exceptionally, loss of consciousness.

Alimentary canal: after being swallowed, it can cause irritation of alimentary canal, nausea, vomiting and diarrhoea.

Skin contact: causes skin dryness, inflammation; irritation and reddening possible.

Eye contact: irritation and reddening possible

Acute health symptoms after intake: irritation of mucous membranes, eyes and airway, tiredness, drowsiness, vertigo, headache, nausea.

Health symptoms after lasting exposure: Persons who run the most risk of breathing air with the substance vapours can suffer from irritation of mucous membranes, headaches and vertigo, excitement or drowsiness, alimentary canal problems, skin dryness and fissure, allergies.

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12 ENVIRONMENTAL INFORMATION

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

Ecotoxicological data(for styrene)

| CAS. No | method | value | unit |
|----------|--------------------------------|-------|------|
| 100-42-5 | fish: LC50 (96h) | 4-10 | mg/l |
| | water invertebrates: LS50(48h) | 4,7 | mg/l |
| | algae: EC50(72h) | 4,9 | mg/l |
| | bacteria: NOEC(16h) | 72 | mg/l |

Biodegradation: 80%/20d(test in closed bottle)product is easy biodegradable.

Mobility and bioaccumulation potential:

Bioaccumulation :log Pow.2,96(OECD 107)Mobility in environment is limited to creation.

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);

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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: | Not concern according to 2.2.3.1.5. ADR |
| Name of product: | Polyester resin in set.class 3.3. ; |
| UN number | 3269 |
| Packing group | III |
| EmS: | 3-07 |

Air transport:

| | |
|-----------------------|--------------------|
| CIAO/IATA | No data available; |
| N. ONU | |
| Exact technical name: | Polyester putty; |

15 INFORMATION CONCERNING THE LAW REGULATIONS

15.1 Packages

Packages marking:
Sticker containing:

ECO-LINE ACER PUTTY

MARKING

Xn



HARMFUL

Phrases indicating
thread type:

R20
R36/38
R66

Harmful by inhalation.
Irritating to eyes and skin
Repeated exposure may cause
skin dryness or cracking.

Phrases indicating conditions
of safe use:

S2
S3/7
S25

Keep out of the reach of children.
Keep container tightly closed in
cool place.
Avoid contact with eyes.

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S51

Use only in well-ventilated areas.

Contains: styrene

VOC=115g/l

2004/42/WE IIB(b) (250)115

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

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 Harmful by inhalation.
R36/38 Irritating to eyes and skin

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