

SAFETY DATA SHEET

Product Name: Efatherm Teflon Enamel 0330 - xxxxx Data Sheet no.: 0330 Version no.: 6
Created: 1. Jun. 2000 Date of revision: 31. Okt. 2007 Replace: 2. Jun. 2004

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Efatherm Teflon Enamel 0330 - xxxxx

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING:

Product Name: Efatherm Teflon Enamel 0330 - xxxxx

PR-no:

Product Category: Enamel based on silicon resin.

Responsible for the Safty Data Sheet

Emergency telephone number :

E-mail:

The doctor may contact the

Manufacturer/Importer:

Danish Poisons Information

Esbjerg Farve- & Lakfabrik A/S

Center by calling: +45 35 31 60

Energivej 13

60.

6700 Esbjerg

Telephone no.: +45 75 12 86 00

Fax no.: +45 75 45 33 68

Uses:

Coating of metal.

2. HAZARDS IDENTIFICATION:

Main Toxicological and Ecological hazards:

This product is flammable and presents a health hazard. Harmful by inhalation, in contact with skin and if swallowed. Repeated exposure may cause skin dryness or cracking. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

Hazardous compounds in accordance with EC Directives 1999/45/EEC; 2001/59/EEC (symbol and R-phrases are stated for the pure compound). Any volatile compounds are stated in item 8 in units of ppm.

Contains:

CAS number:	EINECS no.:	%:	Chemical Name:	Classification:	Note:
111-76-2	203-905-0	25 - 50%	ethylene glycol monobutyl ether	Xn, Xi	R20/21/22, R36/38
64742-95-6	265-199-0	2,5 - 10%	Solvent naphtha (petroleum), light arom.	Xn, N	R10, R37, R65, R66, R67, R51/53
108-65-6	203-603-9	2,5 - 10%	2-methoxy-1-methylethyl acetate	Xi	R10, R36

4. FIRST AID MEASURES:

General information:

If in doubt, seek medical advice. Also see para. 1

Inhalation:

If patient feels unwell move to fresh air and keep under surveillance. If the victim is unconscious, ascertain whether the victim is breathing. If breathing has stopped, apply artificial respiration. If the victim is unconscious but breathing, place in the recovery position and keep warm with blankets. Obtain immediate medical attention or call an ambulance.

Contact with eyes:

If necessary, remove contact lenses. Immediately flush eyes with water for at least 10 minutes. Hold eyelids wide apart. Seek medical attention.

Contact with skin:

Remove contaminated clothes immediately, and wash skin thoroughly with soap and water. Skin cleaner may be used. Do not use organic solvents or thinners.

Ingestion:

Do NOT induce vomiting. If vomiting occurs, hold head low to prevent aspiration of liquid into lungs. Obtain medical help or ambulance.

Burns:

Flush with plenty of water until pain ceases. Whilst flushing with water, remove all loose clothing from area of burns. If medical treatment is necessary, continue rinsing until a doctor takes over the treatment.

5. FIRE-FIGHTING MEASURES:

Suitable extinguishing media:

Extinguish fire with foam, carbon dioxide, powder, or water vapor.

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Extinguishing media that must not be used:

Do not use a water jet as it spreads the fire.

Special hazards:

Fire will produce a thick black smoke.

Special protective equipment:

Products of combustion are harmful and respiratory protection is required.

General information:

Cool closed containers with water.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions:

Avoid inhalation of vapours. See protection measures in item 7 and 8.

Environmental precautions:

If lakes, waterways or drains become contaminated, inform the environmental authorities. Do not discharge into drain. See Item 12.

Methods for cleaning up:

If spillage occurs, prevent material from entering drains or water courses. Recover spill with non-flammable, absorbent material, e.g. sand, dirt, or granular substances and place in a disposable container (see item 13). Clean preferably with cleansing agents. Avoid using solvents.

General information:

Remove all ignition sources and ensure sufficient ventilation.

7. HANDLING AND STORAGE:

Handling:

Vapors may form explosive mixtures with air. Prevent the formation of flammable or explosive mixtures. Minimize vapor concentrations. Do not use this material near naked flames or any other ignition source. Electrical installations must be protected according to regulations. The product may be charged electrostatically. Always use underground wire when transferring from one container to another. Personnel should wear antistatic shoes and clothing. Floors should be conductive. Do not use tools which may produce sparks. Avoid contact with eyes and skin. Avoid inhaling vapors and spray mists. Smoking and the consumption of food and drink are not permitted in work rooms. Personal protective equipment: Refer to section 8.

Storage:

Follow the Danish Emergency Management Agency guidelines for flammable liquids. The product must be kept away from children. Store in a tightly closed container and in accordance with the current regulations in a dry and well-ventilated place away from food. Keep away from ignition sources, oxidizing agents and strong acidic and basic substances. No smoking. No admittance to unauthorized persons. Opened containers must be carefully closed and stored upright to prevent any leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Engineering Control Measures:

All work must be planned with a view to limit the breathing of fumes and the exposure to the skin. Ensure adequate ventilation. If this is not possible, use respiratory protection according to the MAL code number.

Respiratory Protection:

Use compressed-air full face mask.

Hand Protection:

Use nitrile protection gloves. A 15-mil thickness glove provides a one-hour breakthrough-time. Follow the glove manufacturer's recommendations on use and replacement.

Eye protection:

Use suitable protective goggles or full face mask for protection against splashes.

Body Protection:

If possible, wear special work clothes. When spraying wear coveralls.

General information:

Prevent employee exposure to substances which may be hazardous by pregnancy or breast feeding.

Occupational Exposure Limits:

The specified exposure limit values are in accordance with the Danish National Working Environment Authority's list of recommended Exposure Limit Values.

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CAS number:	Chemical Name:	Occupational Exposure Limits:	Note:
111-76-2	ethylene glycol monobutyl ether	20 ppm 98 mg/m ³	H
64742-95-6	Solvent naphtha (petroleum), light arom.	25 ppm 109 mg/m ³	H
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm 275 mg/m ³	H

9. PHYSICAL AND CHEMICAL PROPERTIES:

Form:	Liquid
Flash point:	> 23
Density Kg/L:	1,06
Fire class:	II - 1
Explosion limits:	0,5 - 12
Weight % organic solvents:	57
VOC content (g/liter):	604

10. STABILITY AND REACTIVITY:

Conditions to avoid:

Stable at normal temperature. When exposed to high temperatures, toxic decomposition products may be formed.

Substances to avoid:

To prevent heat-generating reactions, keep the product away from oxidizing agents and strong acidic and basic substances.

11. TOXICOLOGICAL INFORMATION:

Inhalation:

Inhalation of vapors may cause symptoms of poisoning such as memory and concentration difficulties, abnormal tiredness, irritability and, in extreme cases, unconsciousness. Prolonged and repeated inhalation of high concentrations may cause damage to liver, kidneys, brain and nervous system.

Contact with skin:

Organic solvents have a degreasing effect on the skin. Repeated and/or prolonged contact with this product may cause inflammation and irritation. Organic solvents may be absorbed through skin.

Contact with eyes:

Eye irritation. Splashes in the eye may cause irritation.

Ingestion:

Chemical pneumonia may occur if organic solvents enter the lungs through vomiting. Accidental swallowing may cause vomiting and stomach pains.

12. ECOLOGICAL INFORMATION:

Ecotoxicity:

Do not dispose of this product in drains, watercourses, or on the ground.

Solvent naphtha (petroleum), light arom.

Toxicity(fish):	Fishes: LC50 1-10 mg/l
Toxicity(Water fleas):	Water fleas: EC50 (48 h) 1-10 mg/l
Toxicity(algae):	Algae: IC50 (72 h) 1-10 mg/l

Mobility:

Solvent naphtha (petroleum), light arom.

NOT EASILY DEGRADABLE: Slow degradation in soil and water. By spillage or discharge the majority will evaporate.

General information:

This product is classified as hazardous to the environment according to the calculation method in the Notification on Classification, Labeling, etc. of chemical substances and products. Please see par. 2 and 15 for further information.

Solvent naphtha (petroleum), light arom.

VERY POISONOUS FOR WATER ORGANISMS: May cause high mortality in water organisms already at low concentration and short-term exposure BIO-ACCUMULATES in water-based environments.

13. DISPOSAL CONSIDERATIONS:

Disposal considerations:

Product residues are classified as chemical waste.

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Waste code: 08 01 11 waste paint and varnish containing organic solvents or other dangerous substances

14. TRANSPORT INFORMATION:

ADR/RID:	UN no.	1263
	Class:	3
	Packaging group:	III
	Hazard Identification:	30
	Proper Shipping Name:	PAINT
IMDG:	UN no.	1263
	Class:	3
	Packaging group:	III
	EmS:	F-E, S-E
	Proper Shipping Name:	PAINT
IATA:	UN no.	1263
	Class:	3
	Packaging group:	III
	Proper Shipping Name:	PAINT


15. REGULATORY INFORMATION:

General information:

In accordance with the EC Directives 1999/45/EEC; 2001/59/EEC Statutory Order on classification, packaging, labelling, sale and storage of chemical substances and products the product is marked as follows:

Contains: ethylene glycol monobutyl ether

Labelling:

Xn	R10	Flammable.
	R66	Repeated exposure may cause skin dryness or cracking.
	R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
	R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	S23	Do not breathe vapour.
	S51	Use only in well-ventilated areas.
	S61	Avoid release to the environment Refer to special instructions/Safety data sheets.
	S7/9	Keep container tightly closed and in a well-ventilated place.
	S36/37	Wear suitable protective clothing and gloves.

Uses and Restrictions:

Not to be handled by individuals under the age of 18 years, according to Danish Ministry of Employment's ministerial order No. 516 of 14th June 1996, concerning young people in employment.

16. OTHER INFORMATION:

R phrases:

R10	Flammable.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R36/38	Irritating to eyes and skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

General information:

The information in this Material Safety Data Sheet is based upon our knowledge and on European Union and national legislation. The user's working conditions are outside our control. It is the responsibility of the users to fulfil the requirements set by National Legislation. The information is no guarantee of the properties of the product.

Training advice:

The instructions in this Material Safety Data Sheet are given on the assumption that the product is used as stated in item 1. Restrictions of use and special training requirements must also be complied with. The information in this Material Safety Data Sheet should be regarded as a description of the safety issues concerning the product.

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Final remarks:

The Material Safety Data Sheet may only be reproduced with the permission of the manufacturer.

References:

EC Directive 2001/58/EEC EC Directives 1999/45/EEC, 2001/59/EEC

Corrections:

Technical Data Sheet has been changed.

Drawn up by: GK

Updated by: HB
