

SAFETY DATA SHEET



UK

Product: **TH102 DUPONT(TM) MARINE FINISHES THINNER SLOW**

Print Date: 17.11.2005 Version: 1.0 Revision Date: 17/11/2005

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

Identification of the substance or preparation

- Commercial Product Name: TH102 DUPONT(TM) MARINE FINISHES THINNER SLOW
- Intended use of the substance/preparation: Coating for professional use

Manufacturer, importer, supplier

- Producer/Supplier: Dupont (U.K.) Limited
- Street/Box: Freshwater Road
- Telephone: 0044 20 85 98 4250
- Responsible Department: Regulatory Affairs
- Telephone: ++49 (0)202 529 2571
- Emergency telephone: ++44 (0)8456 006640

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization of the product

- Description: mixture of solvents
- Hazardous components:
Substances presenting a health or environmental hazard within the meaning of the DSD 67/548/EEC incl. 29. ATP

EINECS-No.	CAS-No.	Chemical Name	Concentration	Classification
203-933-3	112-07-2	2-butoxyethyl acetate	75,00 - < 90,00 %	Xn; R20/21
265-185-4	64742-82-1	white spirit	7,00 - < 10,00 %	Xn; R65 N; R51/53 R66
202-436-9	95-63-6	1,2,4-trimethylbenzene	0,25 - < 0,50 %	R10 Xn; R20 Xi; R36/37/38 N; R51/53
203-132-9	103-65-1	n-propylbenzene	0,25 - < 0,50 %	R10 Xn; R65 Xi; R37 N; R51/53
203-604-4	108-67-8	mesitylene	0,20 - < 0,25 %	R10 Xi; R37 N; R51/53

- Additional advice:
See full text of R-phrases in chapter 16.

3. HAZARDS IDENTIFICATION

The product is classified as dangerous in accordance with Directive 1999/45/EC.

- Human health hazards:
Classification : - flammable - harmful - dangerous for the environment
Flammable. Harmful by inhalation and in contact with skin. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

- General advice:
When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person.
- Inhalation:
Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.
- Skin contact:
Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser.
- Eye contact:
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Seek medical advice.
- Ingestion:
If accidentally swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting.

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5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media:
alcohol-resistant foam, carbon dioxide (CO₂), dry powder, water spray
- Extinguishing media which must not be used for safety reasons:
high volume water jet
- Special exposure hazards from the product itself, combustion products, resulting arising gases:
Fire will produce dense black smoke containing hazardous combustion products (see heading 10).
Exposure to decomposition products may be a hazard to health.
- Special protective equipment for fire-fighters:
Respiratory protective device may be required.
- Additional advice:
Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:
Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Air out the room. Do not inhale vapours.
- Environmental precautions:
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.
- Methods for cleaning up:
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. HANDLING AND STORAGE

Handling

- Safe handling advice:
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Comply with the health and safety at work laws. When operators, whether spraying or not, have to work inside the spraybooth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. Particularly for spray mist the sustained certain compliance with the limitation on respirable dust is improbable. Particularly for spray mist compliance with the limitation on respirable dust is improbable.

- Advice on protection against fire and explosion:
Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

Storage

- Requirements for storage areas and containers:
Keep containers tightly closed. Never use pressure to empty container: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. < 21 °C: Store in accordance with the conditions of licence necessary under the Petroleum (Consolidation) Act 1928 (GB) Petroleum (Consolidation) Act 1929 (NI) Cellulose Solution Regulations 1939 and the Dangerous Substances Act 1972 (IRL). Further guidance is contained in HSE Guidance Note HS(G)51, Storage of Flammable Liquids in Containers. 21 to 32 °C: The Storage and use of this product is subject to the requirements of the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations 1972 (GB), Highly Flammable Liquids and Liquefied Petroleum Gases Regulations 1975 (NI) Cellulose Solution Regulations 1939 and the Dangerous Substances Act 1972 (IRL). Up to 50 litres may be kept in a work room provided it is kept in a fireproof cupboard or bin. Larger quantities must be kept in a separate storeroom conforming to the structural requirements of the Regulations. Further guidance is contained in HSE Guidance Note HS(G)51, Storage of Flammable Liquid in Containers. > 32 °C: Although the storage of this product is not subject to specific statutory requirements, the principles contained in HSE Guidance Note HS(G)51, Storage of Flammable Liquids in Containers, should be observed.
- Advice on common storage:
Keep away from oxidising agents and strongly acid or alkaline materials.
- Additional information on storage conditions:
Always keep in containers of same material as the original one. Observe label precautions. Place away

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from sources of heat and direct sunlight. Keep away from sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

All personal protective equipment should be in conformity with the Provision & Use of COSHH.

Additional technical information on the plant

Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Exposure limit values

CAS-No.	Chemical Name	Type	Value	Note
112-07-2	2-butoxyethyl acetate	TWA	20,00 ml/m3	1
		STEL	50,00 ml/m3	
95-63-6	1,2,4-trimethylbenzene	TWA	125,00 mg/m3 25,00 ml/m3	
		STEL	370,00 mg/m3 75,00 ml/m3	
103-65-1	n-propylbenzene	TWA	120,00 mg/m3 25,00 ml/m3	
		STEL	370,00 mg/m3 75,00 ml/m3	
108-67-8	mesitylene	TWA	125,00 mg/m3 25,00 ml/m3	

- Additional advice:
according to HSE Guidance Note EH40 (2003) unless otherwise stated. If the product is sprayed inhalation of aerosol dusts must be controlled to the OEL values in EH 40. Further information on respiratory protective equipment is available in HSE publication "Respiratory Protective Equipment" Third Edition ISBN 011886382 7.

Exposure controls

- Respiratory protection:
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Hand :

	Glove material	Glove thickness	Break through time
2-butoxyethyl acetate	nitrile rubber	0,33 mm	480 minute
	Viton	0,7 mm	480 minute
white spirit	nitrile rubber	0,33 mm	30 minute
	Viton	0,7 mm	480 minute

The protective glove should be checked in each case for its workstation-specific suitability (e.g. mechanical stability, product compatibility, anti-statics). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in chapter 2 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Cleaning solvents or viscosity adjustment thinners require special hand protection, a fluorocarbon rubber glove should be used. Solvents are to be used only for adjusting the viscosity. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately. Preventive skin protection such as skin protective cream is recommended. Work tasks should be arranged in such a way that gloves do not have to be worn continuously.

- Eye protection:
Wear protective eyewear for protection against solvent spatter.
- Skin protection:
Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

¹ Note:

H: Skin resorbitive

Y: There is no need to fear risk of fetal damage if complying with the MWC and the BWST values.

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- Protective measures / Hygiene measures:
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

Environmental exposure controls

- Do not let product enter drains.
- For ecological information refer to chapter 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information (appearance)

Physical state: liquid Colour: FARBLOSS

Important health, safety and environmental information

	Value	Method
- Flash point:	46 °C	ISO 1523
- Ignition temperature:	201 °C	DIN 51794
- Lower explosion limit (Vol.):	0,8 %(V)	
- Upper explosion limit (Vol.):	8,5 %(V)	
- Vapour pressure (20 °C):	0,4 hPa	
- Relative density (20 °C):	0,92 g/cm3	
- Water solubility:	completely miscible	
- Viscosity (23 °C):	< 40 s	ISO 2431-1993 6,0 mm
- Solvent separation test:	<3%	ADR/RID

10. STABILITY AND REACTIVITY

- Conditions to avoid:
Stable under recommended storage and handling conditions (see section 7).
- Materials to avoid:
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
- Hazardous decomposition products:
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

Practical experience

- Further observations:
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system.
Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.
The liquid splashed in the eyes may cause irritation and reversible damage.
Through skin resorption, solvents can cause some of the effects described here.
2-butoxyethanol and its acetate are readily absorbed through the skin and will cause harmful effects on the blood.

General observations

There are no data available on the product itself. See sections 2 and 15 for details.

12. ECOLOGICAL INFORMATION

Ecotoxicity

- Acute toxicity aquatic invertebrates :

EINECS-No.	Chemical Name	Species	Exposure time	Value	Type	Method
203-933-3	2-butoxyethyl acetate	Daphnia	24 hour	> 100 mg/l	EC50	

- Acute and extended toxicity of fishes :

EINECS-No.	Chemical Name	Species	Exposure time	Value	Type	Method
203-933-3	2-butoxyethyl acetate	Leuciscus idus	48 hour	10 - 100 mg/l	LC50	

- Toxicity with aquatic plants :

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EINECS-No.	Chemical Name	Species	Exposure time	Value	Type	Method
203-933-3	2-butoxyethyl acetate	scenedesmus subspicatus	72 hour	> 100 mg/l	EC50	

- Toxicity with micro organisms :

Mobility

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Other adverse effects

The preparation was evaluated in accordance with the conventional method of the preparation directive 1999/45/EG and classified as environmentally dangerous. For details see sections 2 and 15.

Additional ecological information

There are no data available on the product itself. The product should not be allowed to enter drains or watercourses. Do not let product enter drains.

13. DISPOSAL CONSIDERATIONS

Product

- Recommendation:

The conversion into energy disposal process is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

- Catalogue Code:

Catalogue Code:

Description:

080117

Waste from paint or coating removal, containing organic solvents or other dangerous substances

Uncleaned packaging

- Recommendation:

Properly emptied containers are to be scrap processed or reconditioned. Improperly emptied containers are considered hazardous waste (waste key number 150110). Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Waste, including emptied containers, is controlled waste. Waste classified as hazardous should be disposed of in accordance with the regulations made under the Hazardous Waste (England, Wales and Northern Ireland) Regulations 2005 or of the Special Waste Amendment (Scotland) Regulations 2004 or of the Waste Management Act 1996 (IRL).

14. TRANSPORT INFORMATION

Transport only in accordance with the requirements of the Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labeling), ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

Land transport

ADR/RID :

- Class: 3
- UN-No: 1263
- Description of the goods: PAINT RELATED MATERIAL
- Packing group: III
- Release of danger:

Sea transport

IMDG:

- Class: 3
- UN-No: 1263
- Marine pollutant: NO
- Proper technical name: PAINT RELATED MATERIAL
- Packing group: III
- Release of danger:

Air transport

ICAO/IATA:

- Class: 3
- UN/ID No.: 1263
- Proper technical name: PAINT RELATED MATERIAL

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- Packing group: III
- Release of danger:

15. REGULATORY INFORMATION

The product is labelled according to the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 as amended (CHIP Regulations). The risk associated with the use of this product must be assessed in accordance with the Control of Substances Hazardous to Health (COSHH) Regulations and the Dangerous Substances and Explosive Atmospheres Regulations.

- Symbol and indicating of hazard:
Xn Harmful
- Contains: 2-butoxyethyl acetate
- R-phrase(s):
R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S-phrase(s):
S23 Do not breathe vapour.
S36/37 Wear suitable protective clothing and gloves.
S46 If swallowed, seek medical advice immediately and show this container or label.
S51 Use only in well-ventilated areas.
S57 Use appropriate container to avoid environmental contamination.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- Other directives, limitations and prohibitory regulations:
Restricted to professional users.

16. OTHER INFORMATION

- Full text of R phrases with no. appearing in section 2:
- R10 Flammable.
 - R20 Harmful by inhalation.
 - R20/21 Harmful by inhalation and in contact with skin.
 - R36/37/38 Irritating to eyes, respiratory system and skin.
 - R37 Irritating to respiratory system.
 - R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R65 Harmful: may cause lung damage if swallowed.
 - R66 Repeated exposure may cause skin dryness or cracking.

Further information

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.