



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

Identification of the substance or preparation:

Name: **TOPCOAT 320/360 DURCISSEUR BRUSH EXTRA SLOW.**

Product code: 12100200D.

Company/undertaking identification:

Registered company name: MAP YACHTING.

Address: ZI ATHELIA IV – 296 Av de la Tramontane – 13705 LA CIOTAT - France.

Telephone: 33 (0)4 42 98 14 50 Fax :33 (0)4 42 98 14 51. Email : sales@map-yachting.com

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Association/Organisation: ORFILA.

2 - COMPOSITION/INFORMATION ON INGREDIENTS

Full text of risk phrases appearing in section 2: see section 16.

Hazardous substances present on their own:

(present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)

This preparation contains no hazardous substance in this category.

Other substances representing a hazard:

INDEX	CAS	EC	Name	Symb.	R:	%													
601-022-00-9	1330-20-7		215-535-7		XYLENE	Xn	10	38	20/21		2.5	<= x %	< 10						
601-023-00-4	100-41-4	202-849-4			ETHYLBENZENE	Xn F	11	20			0	<= x %	< 2.5						
603-177-00-8	54839-24-6		259-370-9		2-ETHOXY-1-METHYLETHYL ACETATE						10	67		10	<= x %	< 25			
615-011-00-1	822-06-0	212-485-8			HEXAMETHYLENE-DI-ISOCYANATE	T					23	36/37/38	42/43	0	<= x %	< 2.5			
M133	28182-81-2		500-060-2		1,3,5-TRI(6-ISOCANATOHEXY-2-PROPYLE,XYLENE														
						Xi					43			50	<= x %	< 100			

Substances present at a concentration below the minimum danger threshold:

INDEX	CAS	EC	Name	Symb.	R:	%													
607-195-00-7	108-65-6	203-603-9			2-METHOXY-1-METHYLETHYL ACETATE														
						Xi					10	36		2.5	<= x %	< 10			

Other substances with occupational exposure limits:

No known substance in this category present.

3 - IDENTIFICATION OF HAZARDS

This product is classed: Flammable.

Possibility of skin sensitisation. The preparation may also irritate the skin and prolonged contact may aggravate this effect.

Possibility of noxious effects with symptoms of slight poisoning by inhalation.

4 - FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing in an unconscious person.

In the event of exposure by inhalation:

If a large quantity is inhaled, move the patient into the fresh air and keep him/her warm and still.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

Do not give the patient anything orally.

In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

Refer the patient to an ophthalmologist, in particular if there is any redness, pain or visual impairment.

In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

DO NOT use solvents or thinners.

In the event of swallowing:



In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep still. DO NOT induce vomiting.

If swallowed accidentally, call a doctor to assess the need for monitoring and subsequent treatment in hospital. Show him the label.

5 - FIRE-FIGHTING MEASURES

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

Suitable extinguishing media:

Carbon dioxide, chemical powders, foams, and other extinguishing gases.

In the event of fire, use specifically suitable extinguishing agents. Never use water.

Extinguishing media which must not be used for safety reasons:

Water is not generally recommended since it can be ineffective; however, it can be used successfully to cool containers exposed to the fire and to disperse fumes.

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Special protective equipment for fire-fighters:

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:

On account of the organic solvents contained in the preparation, eliminate sources of ignition and ventilate the premises.

Avoid inhaling the vapors.

Consult the safety measures listed under headings 7 and 8.

Environmental precautions:

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Methods for cleaning up:

Clean preferably with a detergent, do not use solvents.

Contaminated areas must be cleaned very quickly.

A possible decontaminant for flammable products may be: (expressed by volume) water (45 parts), ethanol or isopropanol (50 parts), concentrated ammonia (d-0.880) (5 parts). For non-flammable products: sodium carbonate (5 parts), water (95 parts).

These residues must be stored for disposal in accordance with applicable regulations (see 13).

7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled.

Anyone with a history of skin sensitisation must on no account handle such products

Handling:

Handle in well-ventilated areas.

The vapors are denser than air. They can spread along the ground and form explosive mixtures with air

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Fire prevention:

Prevent the accumulation of electrostatic charges with connections to earth

The preparation may become electrostatically charged; always place on the ground during transfer. Wear antistatic shoes and clothes and make floors of conductive materials.

Use the product in premises where there are no naked flames or other sources of ignition and have protected electrical equipment

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal safety, see §8.



Observe precautions stated on label and also industrial safety regulations

Avoid inhaling solvent vapors and spray-gun aerosols

Packages which have been opened must be reclosed carefully and stored in an upright position

Avoid inhaling vapors.

Where the personnel must carry out work in a booth, whether for spraying or otherwise, the ventilation may be inadequate to control particles and solvent vapors in every case.

It is therefore recommended that personnel wear masks with a compressed air supply during spraying operations until the concentration of particles and solvent vapors has fallen below the exposure limits.

Avoid contact of product with the skin and eyes

Prohibited equipment and procedures:

Smoking, eating and drinking are prohibited in premises where the preparation is used

Never open the packages under pressure

Storage:

Keep the container tightly closed in a dry place.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Use personal protection equipment as per Directive 89/686/EEC.

Anyone with a history of skin sensitisation, asthma, allergies, chronic or periodic respiratory problems must on no account use these preparations

Technical measures:

Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.

If this ventilation is insufficient to maintain the concentration of solvent vapors below the exposure limits, wear breathing apparatus

Exposure limit values per INRS ND 2098-174-99 and ND 2114-176-99:

France	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP N°:
822-06-0	0,01	0,075	0,02	0,15	AR	62
108-65-6	50	275	100	550	*	--
100-41-4	100	442	200	884	*	84 -
1330-20-7	50	221	100	442	*	4 bis, 84 -
Germany	Class:	MAK-ppm:	MAK-mg/m3:	Notes:	Notes:	
822-06-0	I	0,005	0,035	Sens		
108-65-6	I	50	270	C		
100-41-4	I	100	440	D,*		
1330-20-7	II,1	100	440	D,*		
ACGIH(TLV)	TWA-ppm:	TWA-mg/m3:	STEL-ppm:	STEL-mg/m3:	Notes:	Notes:
822-06-0	0,005	0,034	-	-	-	-
108-65-6	-	-	-	-	-	-
100-41-4	100	434	125	543	-	S
1330-20-7	100	434	150	651	A4	S

Exposure limit values per 2006/15/CE, 2000/39/EC and 98/24/EC:

EC	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:
108-65-6	50	275	100	550	Peau
100-41-4	100	442	200	884	Peau
1330-20-7	50	221	100	442	Peau

Exposure limit values (2003-2006):

UK/MEL	TWA:	STEL:	Ceiling:	Definition:	Criterion:
822-06-0	0.02 mg/m3	0.07 mg/m3	-	-	-
Germany/AGW	AGW:	AGW:	Faktor:	Bemerkungen:	
822-06-0	0,005 ml/m3	0,035 mg/m3	1;=2=(I)	DFG, 12	
108-65-6	50 ml/m3	270 mg/m3	1(I)	DFG, EU, Y	
100-41-4	100 ml/m3	440 mg/m3	2(I)	EU, H	
1330-20-7	100 ml/m3	440 mg/m3	2(II)	DFG, H	

UK/WELs	TWA:	STEL:	Ceiling:	Definition:	Criterion:
822-06-0	0.02 mg/m ³	0.07 mg/m ³	-	-	-
108-65-6	50 ppm	100 ppm	-	-	-
100-41-4	100 ppm	125 ppm	-	-	-
1330-20-7	50 ppm	100 ppm	-	-	-
UK/OES	TWA:	STEL:	Ceiling:	Definition:	Criterion:
108-65-6	50 ppm	100 ppm	-	-	-
100-41-4	100 ppm	125 ppm	-	-	-
1330-20-7	50 ppm	100 ppm	-	-	-
Germany/MAK	TWA:	STEL:	Ceiling:	Definition:	Criterion:
822-06-0	0.005 ppm	0.005 ppm	0.01	-	-
108-65-6	50 ppm	50 ppm	-	-	-
1330-20-7	100 ppm	200 ppm	-	-	-

Respiratory protection:

With this preparation, avoid in particular any inhalation of vapors.

Hand protection:

Protective creams may be used for exposed skin, but they should not be applied after contact with the product.

In the event of prolonged or repeated contact with the hands, use appropriate gloves.

Eye and face protection:

Use eye protectors designed to protect against liquid splashes

Skin protection:

Wear antistatic clothing made of natural fibre or synthetic fibre resistant to high temperatures.

After contact with the product, any contaminated part of the body shall be washed

For further information, see § 11 of S.D.S. - Toxicological information.

9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:

Physical state: viscous liquid

Important health, safety and environmental information:

pH of the substance or preparation: not relevant.

The pH is impossible to measure or its value is not relevant.

Boiling point/boiling range: 158 °C.

Flash point interval: 23°C. < Flash point: <= 55°C.

vapour pressure: Below 110 kPa (1.10 bar).

Density: > 1

water solubility: Insoluble.

Other information:

melting point/melting range: -89 °C.

Self-ignition temperature: 325 °C.

Decomposition point/decomposition range : not specified.

VOC (g/l): 484

10 - STABILITY AND REACTIVITY

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and nitrogen oxide

It may also release hydrogen cyanide, amines and alcohols.

Keep away from oxidising agents and strongly acidic or basic materials to avoid exothermic reactions

Exothermic reactions occur with amines and alcohols. The preparations react slowly with water and give off carbonic gas which may produce pressure increases in closed packages

11 - TOXICOLOGICAL INFORMATION

No data is available regarding the preparation itself.

Exposure to vapors from solvents contained in the preparation beyond the exposure limits stated may produce effects harmful to health, such as:

Irritation of mucous membrane and respiratory system, kidneys, liver and central nervous system.



Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness. Prolonged or repeated contact with the preparation may strip the skin of its natural oil and thus cause non-allergic dermatitis on contact and absorption through the epidermis.

Splashes in the eyes may cause irritation and reversible damage

It is generally agreed that substances contained are likely to cause, among certain predisposed subjects, a sensitisation reaction by cutaneous route

Based on the properties of isocyanates and taking into account toxicological data for similar preparations, this preparation may cause irritation and/or sensitisation of the respiratory system.

It may also lead to asthma, respiratory problems and angina

Those susceptible may display asthmatic symptoms when exposed to atmospheres with an isocyanate concentration well below those of the VLE: exposure limits.

Repeated exposure may cause permanent respiratory problems.

Other data:

CAS 100-41-4 : IARC Groupe 2B (The agent is possibly carcinogenic to humans).

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

The product must not be allowed to run into drains or waterways.

Other adverse effects:

Germany: WGK 2 (VwVwS vom 17/05/99, KBws)

13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

Waste:

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

14 - TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2005 - IMDG 2004 - ICAO/IATA 2005).

UN1263=PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.		
	3	F1	III	3	30	LQ7	163-650-640E		
Not subject to this regulation if Q < 450l.									
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.			
	3	-	III	5 L	F-E,S-E	163 223 944 955			
Not subject to this regulation if Q < 30l									
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	
	3	-	III	309	60 L	310	220 L	A3 A72	
	3	-	III	Y309	10 L	-	-	-	

15 - STATUTORY INFORMATION

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations

In addition directive 2004/73/EC with the 29° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.

Contains compounds with an isocyanate base - refer to the information supplied by the manufacturer. This information is found on this safety data sheet

Preparation classification:

Harmful. Flammable.

Contains:

- 601-022-00-9 XYLENE
- 601-023-00-4 ETHYLBENZENE
- 615-011-00-1 HEXAMETHYLENE-DI-ISOCYANATE



M133 1,3,5-TRI(6-ISOCANATOHEXY-2-PROPYLE,XYLENE

Particular hazards associated with the preparation and safety recommendations:

- R 43 May cause sensitization by skin contact.
- R 20 Harmful by inhalation.
- R 10 Flammable.
Contains isocyanates. See information supplied by the manufacturer.
- S 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
- S 24 Avoid contact with skin.
- S 37 Wear suitable gloves.
- S 60 This material and its container must be disposed of as hazardous waste.
- S 9 Keep container in a well-ventilated place.

Particular provisions:

Germany: WGK 2 (VwVwS vom 17/05/99, KBws)

16 - OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

Full text of risk phrases appearing in section 2:

- R 10 Flammable.
- R 11 Highly flammable.
- R 20 Harmful by inhalation.
- R 20/21 Harmful by inhalation and in contact with skin.
- R 23 Toxic by inhalation.
- R 36 Irritating to eyes.
- R 36/37/38 Irritating to eyes, respiratory system and skin.
- R 38 Irritating to skin.
- R 42/43 May cause sensitization by inhalation and skin contact.
- R 43 May cause sensitization by skin contact.
- R 67 Vapours may cause drowsiness and dizziness.