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

Preparation:

Name: **DURCISSEUR FR1/55 – HARDENER**

Product code: 21055000D.

Company/business:

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](mailto:sales@map-yachting.com)

Emergency telephone No 33 (0)1 45 42 59 59 .

Association/Organisation: ORFILA.

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## 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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)

M112 POLYISOCYANATE ALIPHATIQUE | Concentration  $\geq 25.00\%$  and  $< 50.00\%$ . Symbol: Xi R: 43

Other substances representing a hazard:

No known substance in this category present.

Substances present at a concentration below the minimum danger threshold.

M111 CAS 822-06-0 1,6-DIISOCYANATE D'HEXAMETHYLENE | Concentration  $\geq 0.00\%$  and  $< 2.50\%$ . Symbol: T R: 36/37/38-42/43-23

Other substances with occupational exposure limits.

No known substance in this category present.

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## 3 - IDENTIFICATION OF HAZARDS

This product is not classed as flammable. Refer to the recommendations regarding the other products present on the site  
Possibility of skin sensitisation. The preparation may also irritate the skin and prolonged contact may aggravate this effect.

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## 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.

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.

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## 5 - FIRE-FIGHTING MEASURES

Not relevant.

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## 6 - ACCIDENTAL RELEASE MEASURES

Safety precautions:

Consult the safety measures listed under headings 7 and 8.



**Environmental safety precautions:**

- Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatom 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

**Cleaning methods:**

- 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.

**Fire prevention:**

- Prevent access by unauthorised personnel.

**Recommended equipment and procedures**

- For personal safety, see §8.
- Observe precautions stated on label and also industrial safety regulations
- Packages which have been opened must be reclosed carefully and stored in an upright position
- 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.
- 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**

- 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 limits 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
Germany	Class:	MAK-ppm:	MAK-mg/m3:	Notes:	Notes:	
822-06-0	I	0,005	0,035	Sens		
ACGIH(TLV)	TWA-ppm:	TWA-mg/m3:	STEL-ppm:	STEL-mg/m3:	Notes:	Notes:
822-06-0	0,005	0,034	-	-	-	-

**Other values (2003):**

UK/MEL	TWA:	STEL:	Ceiling:	Definition:	Criterion:
822-06-0	0.02 mg/m3	0.07 mg/m3	-	-	-
Germany/MAK	TWA:	STEL:	Ceiling:	Definition:	Criterion:

822-06-0      0.005 ppm      0.005 ppm      0.01      -      -

**Safety breathing apparatus:**

Where workers encounter concentrations higher than the exposure limits, they must wear suitable, approved masks.

**Hand protection.**

Protective creams may be used for exposed skin, but they should not be applied after contact with the product.  
Protective creams may be used for exposed skin, but they should not be applied after contact with the product.  
Due to the solvents present, it is recommended that polyvinyl alcohol or nitrile rubber gloves be worn

**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**

Density:	> 1
Acid/base character of preparation:	not relevant.
Solubility of preparation in water:	Insoluble.
Vapour tension at 50°C of volatile constituents:	Below 110 kPa (1.10 bar).
Physical state:	fluid liquid
Flash point interval:	Flash point: > 61°C.
The pH is impossible to measure or its value is not relevant.	
Self-ignition temperature:	325 °C.
Decomposition temperature:	not relevant.
Melting temperature interval:	-88 °C.
Average distillation temperature of solvents contained:	158 °C.

**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.

**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 data:

Germany: Nicht wassergefährdend (VwVwS vom 17/05/99, KBws)

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## 13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

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## 14 - TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport

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## 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 2001/59/EC with the 28° adaptation of directive 67/548/EC (Hazardous substances) have been taken into account.

This product is not classed as flammable.

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.

Irritant.

### Contains:

M112 POLYISOCYANATE ALIPHATIQUE

### Particular hazards associated with the preparation and safety recommendations:

- |      |  |
|------|--|
| R 43 | May cause sensitization by skin contact.   |
|      | 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.                          |

### Particular provisions:

Germany: Nicht wassergefährdend (VwVwS vom 17/05/99, KBws)

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## 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