



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

Preparation:

**Name: UNDERCOAT EP 230 PTFE - BASE
SEACOAT HB 230 - BASE**

Product code: 21230000B.

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

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

Association/Organisation: ORFILA.

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)

This preparation contains no hazardous substance in this category.

Other substances representing a hazard:

| | |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| INDEX 601-021-00-3 CAS 108-88-3 CE 203-625-9 | TOLUENE Concentration \geq 0.00% and $<$ 2.50%. Symbol: Xn F R: 11-20 |
| INDEX 601-022-00-9 CAS 1330-20-7 CE 215-535-7 | O-XYLENE Concentration \geq 2.50% and $<$ 10.00%. Symbol: Xn R: 10-38-20/21 |
| INDEX 603-074-00-8 CAS 25068-38-6 CE 500-033-5 | REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) Concentration \geq 10.00% and $<$ 25.00%. Symbol: Xi N R: 36/38-43-51/53 |
| INDEX 606-004-00-4 CAS 108-10-1 CE 203-550-1 | ISOBUTYL METHYL KETONE Concentration \geq 2.50% and $<$ 10.00%. Symbol: Xn F R: 11-36/37-66-20 |
| INDEX 607-195-00-7 CAS 108-65-6 CE 203-603-9 | 2-METHOXY-1-METHYLETHYL ACETATE Concentration \geq 2.50% and $<$ 10.00%. Symbol: Xi R: 10-36 |

Substances present at a concentration below the minimum danger threshold.

| | |
|----------------------------------------------|----------------------------------------------------------------------------------------|
| INDEX 603-004-00-6 CAS 71-36-3 CE 200-751-6 | N-BUTANOL Concentration \geq 2.50% and $<$ 10.00%. Symbol: Xn R: 10-37/38-41-67-22 |
| INDEX 607-025-00-1 CAS 123-86-4 CE 204-658-1 | N-BUTYL ACETATE Concentration \geq 0.00% and $<$ 2.50%. Symbol: R: 10-66-67 |

Other substances with occupational exposure limits.

No known substance in this category present.

Other components:

| | |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| INDEX 649-327-00-6 CAS 64742-48-9 CE 265-150-3 | NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Concentration \geq 0.00% and $<$ 2.50%. Symbol: Xn R: 65 |
| INDEX 649-356-00-4 CAS 64742-95-6 CE 265-199-0 | SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. Concentration \geq 2.50% and $<$ 10.00%. Symbol: Xn R: 65 |

3 - IDENTIFICATION OF HAZARDS

This product is classed: Flammable.

Possibility of irritation to the eyes and skin.

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.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.
Call a doctor immediately and show him the label.

5 - FIRE-FIGHTING MEASURES

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

In the event of fire, the recommended extinguishing agents are:

Carbon dioxide, chemical powders, foams, and other extinguishing gases.
In the event of fire, use specifically suitable extinguishing agents. Never use water.

Extinguishing agents not to be used

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 equipment for fire-fighting personnel.

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

6 - ACCIDENTAL RELEASE MEASURES

Safety precautions:

Eliminate any possible source of ignition and ventilate the premises.
On account of the organic solvents contained in the preparation, eliminate sources of ignition and ventilate the premises.
Avoid inhaling the vapors.
Avoid any contact with the skin and eyes.
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.

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

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

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°: |
|------------|----------|------------|------------|-------------|--------|----------|
| 108-65-6 | - | - | - | - | - | - |
| 123-86-4 | 150 | 710 | 200 | 940 | - | 84 |
| 108-10-1 | 50 | 205 | - | - | - | 84 |
| 71-36-3 | - | - | 50 | 150 | - | 84 |
| 1330-20-7 | 100 | 435 | 150 | 650 | - | 4bis, 84 |
| 108-88-3 | 100 | 375 | 150 | 550 | - | 4bis, 84 |
| Germany | Class: | MAK-ppm: | MAK-mg/m3: | Notes: | Notes: | |
| 108-65-6 | I | 50 | 270 | C | | |
| 123-86-4 | I | 100 | 480 | D | | |
| 108-10-1 | I | 20 | 83 | C,* | | |
| 71-36-3 | II,1 | 100 | 310 | D | | |
| 1330-20-7 | II,1 | 100 | 440 | D,* | | |
| 108-88-3 | II,2 | 50 | 190 | C,* | | |
| ACGIH(TLV) | TWA-ppm: | TWA-mg/m3: | STEL-ppm: | STEL-mg/m3: | Notes: | Notes: |
| 108-65-6 | - | - | - | - | - | - |
| 123-86-4 | 150 | 713 | 200 | 950 | - | S |
| 108-10-1 | 50 | 205 | 75 | 307 | - | S |
| 71-36-3 | (50) | (152) | - | - | (*) | P |

| | | | | | | |
|-----------|-----|-----|-----|-----|------|---|
| 1330-20-7 | 100 | 434 | 150 | 651 | A4 | S |
| 108-88-3 | 50 | 188 | - | - | A4,* | - |

Exposure limits per 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 |
| 108-10-1 | 20 | 83 | 50 | 208 | - |
| 1330-20-7 | 50 | 221 | 100 | 442 | Peau |

Other values (2003):

| UK/OES | TWA: | STEL: | Ceiling: | Definition: | Criterion: |
|-------------|---------|---------|----------|-------------|------------|
| 108-65-6 | 50 ppm | 100 ppm | - | - | - |
| 123-86-4 | 150 ppm | 200 ppm | - | - | - |
| 108-10-1 | 50 ppm | 100 ppm | - | - | - |
| 71-36-3 | - | 50 ppm | - | - | - |
| 1330-20-7 | 50 ppm | 100 ppm | - | - | - |
| 108-88-3 | 50 ppm | 150 ppm | - | - | - |
| Germany/MAK | TWA: | STEL: | Ceiling: | Definition: | Criterion: |
| 108-65-6 | 50 ppm | 50 ppm | - | - | - |
| 123-86-4 | 100 ppm | 200 ppm | - | - | - |
| 108-10-1 | 20 ppm | 40 ppm | - | - | - |
| 71-36-3 | 100 ppm | 100 ppm | - | - | - |
| 1330-20-7 | 100 ppm | 200 ppm | - | - | - |
| 108-88-3 | 50 ppm | 200 ppm | - | - | - |

Safety breathing apparatus:

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.

Due to the solvents present, it is recommended that polyvinyl alcohol or nitrile rubber gloves be worn.

Eye and face protection.

Avoid contact with eyes.

Wear safety goggles.

Provide eye washes in workshops where the product is constantly handled

Skin protection.

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: | viscous liquid |
| Flash point interval: | 23°C. < Flash point: ≤ 55°C. |
| The pH is impossible to measure or its value is not relevant. | |
| Self-ignition temperature: | 540 °C. |
| Decomposition temperature: | not relevant. |
| Melting temperature interval: | -25 °C. |
| Average distillation temperature of solvents contained: | 144 °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

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 the appearance of major lesions which persist for at least twenty-four hours after application to the eye of an animal

and are likely to cause significant irritation which lasts for at least twenty four hours after application to the healthy, unbroken skin of an animal for a period of up to 4 hours.

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

On the basis of the properties of the epoxide components and toxicological data relating to similar preparations, the preparation may cause sensitisation of the skin and the respiratory organs and may also be an irritant

Constituents with a low molecular weight irritate the eyes, mucous membranes and the skin

Repeated contact with the skin may cause irritation and hypersensitisation, possibly in combination with other epoxide compounds.

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

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

Aquatic Toxicity:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other data:

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

13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

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
UN1263=PAINT RELATED MATERIAL (including paint thinning or reducing compound)

| ADR/RID | Class | Code | Pack gr. | Label | Ident. | LQ | Provis. | | |
|---------|-------|---------|----------|----------|----------|-----------------|----------|---------|--|
| | 3 | F1 | III | 3 | 33 | LQ7 | 163-640E | | |
| IMDG | Class | 2°Label | Pack gr. | LQ | EMS | Provis. | | | |
| | 3 | - | III | 5 L | F-E,S-E | 163 223 944 955 | | | |
| 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 2001/59/EC with the 28° adaptation of directive 67/548/EC (Hazardous substances) have been taken into account.

Contains epoxide compounds - refer to the information supplied by the manufacturer. This information is found on this safety data sheet.

Preparation classification.

Harmful. Flammable.

Contains:

601-021-00-3 TOLUENE

601-022-00-9 O-XYLENE

603-074-00-8 REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN)

606-004-00-4 ISOBUTYL METHYL KETONE

Particular hazards associated with the preparation and safety recommendations:

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 43 May cause sensitization by skin contact.

R 36/38 Irritating to eyes and skin.



| | |
|------|----------------------------------------------------------------------------------------------------------|
| R 20 | Harmful by inhalation. |
| R 10 | Flammable. |
| | Contains epoxy constituents. 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 26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| S 39 | Wear eye/face protection. |
| S 60 | This material and its container must be disposed of as hazardous waste. |
| S 62 | If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label. |
| 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

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