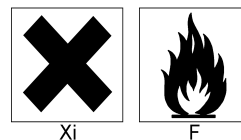


# Safety Data Sheet

## CERABOND



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Safety Data Sheet dated 1/2/2006, version 5

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

Trade name: CERABOND  
Colour: colourless  
Trade code: 3013.000 C  
Product type and use: Inorganic zinc rich primer - comp.B  
Company:  
BOAT S.p.A. - Via G.Macaggi,19 I-16121 GENOVA (ITALY)  
Emergency telephone number of the company and/or of an authorised advisory centre:  
BOERO BARTOLOMEO S.p.A. - Tel.010/5500.1  
Centro Antiveleni - Ospedale "San Martino" - Genova - Tel.010/352808

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

30% - 40% ethanol

N.67/548/CEE: 603-002-00-5 CAS: 64-17-5 EINECS: 200-578-6

20% - 25% 2-methylpropan-1-ol

N.67/548/CEE: 603-108-00-1 CAS: 78-83-1 EINECS: 201-148-0  
Xi R10 R37/38 R41 R67

5% - 7% ethyl silicate

N.67/548/CEE: 014-005-00-0 CAS: 78-10-4 EINECS: 201-083-8  
Xn R36/37 R20 R10

1% - 3% methanol

N.67/548/CEE: 603-001-00-X CAS: 67-56-1 EINECS: 200-659-6  
F T R11 R23/24/25 R39/23/24/25

1% - 3% zinc chloride

N.67/548/CEE: 030-003-00-2 CAS: 7646-85-7 EINECS: 231-592-0  
C N R22 R34 R50/53

1% - 3% butanone

N.67/548/CEE: 606-002-00-3 CAS: 78-93-3 EINECS: 201-159-0  
F Xi R11 R36 R66 R67

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### 3. HAZARDS IDENTIFICATION

The product easily catches fire if it is exposed to an ignition source.

If inhaled, the product causes irritation in the airways. and if brought into contact with the skin, it causes appreciable inflammation, with erythema, scabs, and oedema.

If brought into contact with the eyes, the product causes serious eye injury, such as opacity of the cornea or lesions to the iris.

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

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### 4. FIRST AID MEASURES

Contact with skin:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Contact with eyes:

Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief. OBTAIN A MEDICAL EXAMINATION.

Do not use eyewash or ointment of any kind (before obtaining an examination or advice from an eye specialist).

Swallowing:

Induce vomiting. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety-data sheet.

A suspension of activated charcoal in water, or liquid paraffin may be administered.

Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. OBTAIN MEDICAL ATTENTION.

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### 5. FIRE-FIGHTING MEASURES

Recommended extinguishers:

CO2 or Dry chemical fire extinguisher.

Extinguishers not to be used:

None in particular.

Risks arising from combustion:

Avoid inhaling the fumes.

Protective equipment:

Use protection for the respiratory tract.

Cool the containers exposed to the fire with water.

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### 6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use a mask, gloves and protective clothing.

Environmental measures:

Limit leakages with earth or sand.

Eliminate all unguarded flames and possible sources of ignition. Do not smoke.

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Cleaning methods:

Rapidly recover the product. To do so, wear a mask and protective clothing.

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.

After the product has been recovered, rinse the area and materials involved with water.

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### 7. HANDLING AND STORAGE

Handling precautions:

Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.

Do not eat or drink while working.

Do not smoke while working.

Storage conditions:

Always keep the containers tightly closed.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Instructions as regards storage premises:

Cool and adequately ventilated.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).

Use adequate protective respiratory equipment, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Eye protection:

Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).

Protection for skin:

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Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Exposure limit(s) (ACGIH):

ethanol

TLV TWA: 1000 ppm, A4 - 1880 mg/m<sup>3</sup>, A4 \n

ethyl silicate

TLV TWA: 10 ppm - 85 mg/m<sup>3</sup> \n

methanol

TLV TWA: 200 ppm - 262 mg/m<sup>3</sup> skin \n TLV STEL: 250 ppm - 328 skin  
mg/m<sup>3</sup> skin \n

zinc chloride

TLV TWA: 1 mg/m<sup>3</sup> \n TLV STEL: 2 mg/m<sup>3</sup> \n

butanone

TLV TWA: 200 ppm - 590 mg/m<sup>3</sup> \n TLV STEL: 300 ppm - 885 mg/m<sup>3</sup>  
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	liquid
Flash point:	+5 °C
Relative density:	0.89

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## 10. STABILITY AND REACTIVITY

Conditions to avoid:

Stable under normal conditions.

Substances to avoid:

Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products:

It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth), nitrides, and powerful reducing agents.

It may catch fire on contact with oxidising mineral acids, elementary metals (alkalis and alkaline earth), nitrides, organic peroxides and hydroperoxides, oxidising agents, and reducing agents.

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## 11. TOXICOLOGICAL INFORMATION

The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

Set out below is the toxicological information relating to the main substances in the preparation.

The product does not contain toxicologically relevant substances.

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### 12. ECOLOGICAL INFORMATION

List of substances dangerous for the environment and corresponding classification:

1% - 3% zinc chloride

N.67/548/CEE: 030-003-00-2 CAS: 7646-85-7 EINECS: 231-592-0

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Adopt good working practices, so that the product is not released into the environment.

Waste and disposal have to be controlled and evaluated according to their possible polluting power and to the local law.

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### 13. DISPOSAL CONSIDERATIONS

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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### 14. TRANSPORT INFORMATION

UN number:	UN 1263
Road/rail (ADR/RID):	Pitture
IMDG-Class:	3, PG II
Marine pollutant:	(p)

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### 15. REGULATORY INFORMATION

99/45/EC (Classification and Labelling), 2001/60/CE, 67/548/CEE, 2001/59/CE, 91/155/CEE, 2001/58/CE:

Symbols:

Xi Irritant

F Highly flammable

R Phrases:

R11 Highly flammable.

R41 Risk of serious damage to eyes.

R67 Vapours may cause drowsiness and dizziness.

R37/38 Irritating to respiratory system and skin.

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R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### S Phrases:

- S16 Keep away from sources of ignition - No smoking.
- S23 Do not breathe vapour
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S24/25 Avoid contact with skin and eyes.
- S51 Use only in well-ventilated areas.
- S37/39 Wear suitable gloves and eye/face protection.

Where applicable, refer to the following regulatory provisions :  
Presidential Decree D.P.R. 303/56 (Health checks).  
Law by Decree D.L. 626/94 (Health and safety for workers).

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## 16. OTHER INFORMATION

Main bibliographic sources:

- ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
- SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold
- ACGIH - Treshold Limit Values - 1997 edition

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Text of R phrases referred to under heading 2:

- R10 Flammable.
- R37/38 Irritating to respiratory system and skin.
- R41 Risk of serious damage to eyes.
- R67 Vapours may cause drowsiness and dizziness.
- R36/37 Irritating to eyes and respiratory system.
- R20 Harmful by inhalation.
- R11 Highly flammable.
- R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
- R22 Harmful if swallowed.
- R34 Causes burns.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R36 Irritating to eyes.
- R66 Repeated exposure may cause skin dryness or cracking.

# **Safety Data Sheet**

## **CERABOND**

Paragraphs modified from the previous revision:

- 2. COMPOSITION/INFORMATION ON INGREDIENTS
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 14. TRANSPORT INFORMATION