

1 Identification of Substance

Trade name: CARBOLASTEX WB

Product type and use: Paint

Supplier: Maker Coating Systems Ltd, Unit 5, Oak Business Units, Thorverton Road, Exeter, UK

Emergency telephone number of the company and/or of an authorised advisory centre:

Tel. +(44)1392822600

2 Hazards Identification

Properties / Symbols:

Boric acid (HB02), barium salt 1%- 2.5%

CAS No: 13701-59-2

EC No: 237-222-4

Classification: Not Classified

R Phrases: R20/22- Harmful by inhalation and if swallowed.

If brought into contact with the eyes, the product causes irritation that may last for over 24 hours, and if brought into contact with the skin it causes significant inflammation with erythema, scabs, and oedema.

3 Composition/Information on Ingredients

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

4 First Aid Measures

General:

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth.

Contact with skin:

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.

Contact with eyes:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. OBTAIN A MEDICAL EXAMINATION.

Swallowing:

If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.

5 Fire Fighting Measures

The product does not present a fire hazard

Recommended: alcohol-resistant foam, CO₂, powders, water spray.

Extinguishers not to be used: water jet.

Risks arising from combustion: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

Protective equipment: Use protection for the airways.

Hazardous Combustion Products: Decomposition products may include the following materials: carbon oxides, sulphur oxides, metal oxide/oxides

6 Accidental Release Measures

Measures for personal safety:

Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Refer to protective measures listed in sections 7 and B.

Environmental measures:

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Preferably clean with a detergent. Avoid using solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations. 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, wearing 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 disposal. The product might, where appropriate, be absorbed by inert material.

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

7 Handling and Storage

Keep container tightly closed.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation.

Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protective equipment (see section 8).

Comply with the health and safety at work laws.

Store in accordance with local regulations. Do not store below the following temperature: 0°C (32°F). Must be stored in a dry location. Keep container in a well-ventilated place. Keep away from: oxidizing agents, strong alkalis and strong acids.

No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not empty into drains.

8 Exposure Controls/Personal Protection

Engineering measures: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

Occupational exposure limits: Boric acid (HBO₂), barium salt: EH40-WEL (United Kingdom (UK), 112005). Notes: As Ba TWA: 0.5 mg/m³, 0 times per shift, 8 hour(s). Form: All forms

Occupational exposure controls: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should

be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. In case of insufficient ventilation, wear suitable respiratory equipment. - Organic vapour (Type A) and particulate filter (EN 140).

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. For prolonged or repeated handling, use the following type of gloves: nitrile rubber.

Eye protection: Recommended: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. safety glasses with side-shields (EN 166)

Skin protection: Recommended: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Wear overalls or long sleeved shirt. (EN 467)

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9 Physical and Chemical Properties

Appearance: liquid

Colour: Depending on product number

Odour: Faint odour

pH: 8 - 9

Melting point: N.A.

Boiling point: >100 °C

Evaporation rate: <1 compared with Butyl acelate.

Solid/gas flammability: N.A.

Volatility %: 50 to 53% (v/v), 37 to 40% (w/w)

Relative density: 1.33 to 1.37

Solubility: Soluble in the following materials: cold water and hot water. Very slightly soluble in the following materials: methanol and acetone.

Viscosity: Dynamic: 18000 to 26000 mPa·s (18000 to 26000 cP)

Vapour density (air=1): >1

10 Stability and Reactivity

Stable under recommended storage and handling conditions (see section 7).

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis and strong acids.

11 Toxicological Information

There is no data available on the preparation itself. The preparation is not classified as dangerous according to Directive 1999/451EC and its amendments. 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. If splashed in the eyes, the liquid may cause irritation and reversible damage.

12 Ecological Information

There is no data available on the preparation itself. Do not allow to enter drains or watercourses. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

13 Disposal Considerations

Recover if possible. In so doing, comply with the local and national regulations currently in force. Where applicable, refer to the following regulatory provisions: 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

Disposal of not hardened product (EC waste code) : 08 01 19

The suggested European waste code is just based on the composition of the product.

According to the specific process or application field a different waste code may be necessary.

14 Transport Information

UN Number: None

Rail/Road(RID/ADR): not dangerous good

Sea (IMO/IMDG): not dangerous good

MAR/POL 73/78,Annex III: No

Air (ICAO/IATA): not dangerous good

15 Regulatory Information

The product is determined as not being dangerous according to the requirements of the DPD.

This product is not classified according to EU legislation.

S Phrases: S23- Do not breathe spray. S51- Use only in well-ventilated areas. S56- Dispose of this material and its container at hazardous or special waste collection point.

16 Other Information

CEPE Classification: 2

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK): R20/22- Harmful by inhalation and if swallowed

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.