

## HEALTH & SAFETY DATA SHEETS

Product Name: **CARBON REMOVER - CBX**  
**(ULTRASONIC CLEANING FLUID)**

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Composition / Information on Ingredients:

SODIUM HYDROXIDE	1 – 25%
SODIUM SILICATE	1 – 20%
ALKYLGLUCOSIDE SURFACTANT	1 – 20%

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Hazards Identification:

Severe eye irritation. Severe skin burns can occur. Respiratory irritant can lead to unconsciousness. Ingestion will cause sore throat and nausea.

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First Aid Measures:

<b>Skin:</b>	Remove any contaminated clothing. Wash the affected area thoroughly with copious amounts of water. Obtain medical attention should any irritation, discomfort or redness persists. Ensure immediate attention to burns and blisters, however minor.
<b>Eye:</b>	Wash eyes with flowing water for ten minutes gently prising open eyelids to ensure efficient washing. A doctor should see all eye injuries from chemicals.
<b>Ingestion:</b>	Do <b>NOT</b> induce vomiting except in the presence of, or on the order of a doctor. Seek medical help and take the data sheet. If chemical is confined to the mouth then wash out mouth and do not allow patient to swallow mouthwash. If patient is conscious then give water to drink to dilute the chemical in the stomach. If unconscious then put the patient in the recovery position. Obtain medical advice.
<b>Inhalation:</b>	Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete, seek medical attention.

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Fire Fighting Measures:

<b>Suitable Extinguishers:</b>	Water mist, foam, carbon dioxide and dry powder.
<b>Exposure Hazards in Fire:</b>	May produce corrosive caustic mists and run-off water. The organic constituents may rise to a variety of acrid gases including carbon monoxide, carbon dioxide and oxides of nitrogen.
<b>Special Equipment for Fire Fighting:</b>	Self contained breathing apparatus and full protective clothing, including full face protection.

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Accidental Release Measures:

<b>Less than 1 Litre:</b>	Mop up with plenty of water and flush to drain with copious amounts of water. Ensure a clean, non-slip surface remains.
<b>Greater than 1 Litre:</b>	Exclude non-essential personnel from area. Wear suitable protective clothing. No eating or smoking in area. Isolate any electrical devices involved. Contain and absorb spillage onto

sand, earth or other inert absorbent material. Transfer resulting mixture to suitable containers and seal. Wash area of spillage with water ensuring a clean, non-slip surface remains. If material has entered watercourses inform the appropriate water authority and furnish them a copy of this document.

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**Handling and Storage:**

**Handling:** Exposure by inhalation, eye contact or skin contact should be avoided by good industrial hygiene practice. Wear appropriate protective clothing. No eating or smoking.

**Storage:** Store in a cool, dry area away from incompatible materials, particularly oxidising and reducing agents and away from direct sources of heat. Protect from direct sunlight. Keep in original or dedicated containers and reseal them when not in use. Suitable materials for containers are stainless steel, PTFE or polypropylene.

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**Physical and Technical Safety Data:**

**Appearance:** Light brown liquid.

**Odour:** Nondescript

**Boiling Point:** > 120<sup>0</sup>C

**Melting Point range:** < 0<sup>0</sup>C

**Solubility in water:** Miscible with water.

**Solubility in solvent:** Miscible with lower alcohols. Immiscible with hydrocarbons and halogenated hydrocarbons.

**Flash Point:** N/A

**Relative density:** > 1.4 g/ml @ 25<sup>0</sup>C

**pH:** < 12.5 (1% aqueous)

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**Exposure Controls / Personal Protection:**

**Exposure Controls:** Safety showers and eyebaths should be available in areas where exposure is possible. Chemical resistant gloves and overalls should be worn during prolonged handling operations. Wear full-face shield or goggles if contact with eyes is a risk. Provide local exhaust ventilation if handling in enclosed or badly ventilated areas.

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**Stability and Reactivity:**

**Stability:** Stable product when handled and stored as directed.

**Materials to Avoid:** Will react with aluminium, zinc, tin and their alloys, evolving hydrogen gas. Food or dairy residues may contain reducing sugars, which under certain conditions may react with alkaline cleaning materials evolving carbon monoxide. Will react violently with acids.

**Conditions to avoid:** Exposure to direct sources of heat and frost.

**Hazardous decomposition Products:** Carbon monoxide and hydrogen if mixed with incompatible materials.

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**Toxicological Information:**

**Effects:** Repeated exposure may cause chronic eye irritation and chemical type burns, which may be difficult to heal. Repeated contact with the skin may cause acute eczematous dermatitis, contact erythema and other skin complaints. Prolonged contact may cause severe skin damage and chemical type burns. Ingestion may cause severe internal injury.

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**Ecological Information:**

**Environmental Effects:** Ingredients are not classified as dangerous for the environment. The pH of alkaline salt solutions is above the acceptable limits for direct discharge to sewers or watercourses. However, the high mobility alleviates any potential for bioaccumulation in non-static watercourses.

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**Disposal Considerations:**

**Substance:** Transfer waste and spillage mixtures to suitable containers (PTFE or plastic). Seal the containers and provide the following information in the form of a label securely attached to each container:

1. Hazardous waste, liquid, contains sodium hydroxide.
2. Details of the premises, which produced the waste.
3. Process which produced the waste.
4. Quantity in container.

Dispose of via authorised waste management company ensuring compliance with local and national regulations. Furnish the waste management company with a copy of the document. Suitable method of disposal is by chemical neutralisation, great dilution and discharge with consent of appropriate authority. Do not dump indiscriminately. Empty packaging should be treated as hazardous waste.

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**Regulatory Information:**

**Label Name:** Sodium Hydroxide

**Symbols:** Corrosive

R35 – Causes severe burns

S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S27 – Take off immediately all contaminated clothing.

S37-39 – Wear suitable gloves and face protection.

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**Note:**

The purpose of the above information is to describe the products only in terms of health and safety requirements. The information given should not, therefore, be construed as guaranteeing specific properties or as a specification. Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use.

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