

# MATERIAL SAFETY DATA SHEET

## REVApH-UP

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### 1 - IDENTIFICATION OF THE SUBSTANCE :

CHEMICAL NAME & SYNONYMS: SODIUM CARBONATE (Na<sub>2</sub>CO<sub>3</sub>)

TRADE NAME : **REVApH-UP**

USE : Solid product for increasing of swimming pool water pH.

DESCRIPTION: White solid (powder, crystals or hygroscopic granulates).

CAS NO. : 497-19-8

### 2 - PHYSICAL DATA :

pH (at 1%) 11,1 (at 68F / 20°C)  
TEMPERATURES - FUSION POINT circa 1564F (851°C)  
- DECOMPOSITION > 752F (400 °C)  
FLASH POINT : not applicable  
EXPLOSIVITY : not applicable  
VOLUME MASS : 2,533 kg/l  
SOLUBILITY circa 71 g/l à 0 ° C  
(poorly soluble in absolute alcohol).

### 3 – HAZARDOUS INGREDIENTS

MATERIAL	CAS N°	BY WEIGHT	HAZARD DATA
Sodium carbonate	497-19-8	100 %	Irritant to mucoses and eyes

### 4 - FIRE AND EXPLOSION HAZARD DATA

EXTINCTION MEANS all extinction means are allowed.  
SPECIFIC DANGERS None, the product is not flammable, nor combustible, nor explosive.  
SPECIAL PRECAUTIONS The presence of product does not induce special precautions.

### 5 - HEALTH HAZARD DATA

Normal hazards related to its basic function.  
Effects mainly due to the irritant properties.  
Irritant to mucoses and eyes.  
Lethal cases for ingestion of one dose by 70 kg man.

### 6 - EMERGENCY AND FIRST AID PROCEDURE

previous version : 09/07/03

Last up-dating : 18/06/09

GENERAL CONSIDERATION In case of projections into eyes and face, treat the eyes first.

- INHALATION**
- Irritation of throat. Cough for high concentration
  - In case of repeated or long exposure, risk of sore throat or nose bleeding.
  - Risk grade = 3 serious consequences in some circumstances; medical assistance necessary; systematic general precautions, and even special precaution according to cases.
- Care
- Take subject away from empowdered place, blow nose.
  - Seek medical advice in case of respiratory symptoms.
- EYE CONTACT**
- Strong irritation, crying, redness and swelling of eyes and eyelid.
  - Risk of serious or permanent lesions of the eyes.
  - Risk grade = 2 moderate consequences in all circumstances; first aid measures are sufficient; general precautions in all cases.
- Care
- Without wasting time, wash immediately with plenty of water for 15 minutes, maintaining eye lid open.
  - Seek specialized medical advice in all cases.
- SKIN CONTACT**
- Irritation in contact with wet skin.
  - Dryness and cracks of skin in case of repeated contacts.
  - Risk grade = 3 serious consequences in some circumstances; medical assistance necessary; systematic general precautions, even special precautions according to the case.
- Care
- Take off dirty clothes.
  - Wash with water touched body parts.
  - Seek medical advice in case of red blotches or persistent pain.
- SWALLOWING**
- Strong irritation and risk of burns of mouth, throat, oesophagus and stomach.
  - Nausea and vomitings.
  - In case of swallowing of large quantities, nauseas and bloody vomitings abdominal cramps and bloody diarrhoea.
  - Risk grade = 2 moderate consequences in all circumstances; first aid measures sufficient; general precautions in all cases.
- Care
- Doctor in all cases. Organize transport to a hospital.
  - Treatment of digestive burns and their consequences.
  - Conscious subject: rinse mouth - give water to drink. Do not induce vomiting
  - Unconscious subject: open collar and tight clothes . Put him on his left side.
  - Respiratory resuscitation and oxygene if necessary.
  - Avoid cooling.

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## 7 – TOXICOLOGICAL INFORMATION

GENERAL CONSIDERATION - Toxical effect due mainly to irritant properties of the product.

- ACUTE TOXICITY**
- oral (LD 50 rat) > 2000 mg/kg
  - inhalation (LC 50 rat, in 2 hours) = 2.3 mg/kg
- IRRITATION**
- not irritant to skin (proofs on rabbit).
  - irritant to eyes (proofs on rabbit).
- CHRONICAL TOXICITY**
- toxical if inhaled for lungs (proof on rat)at 0.07 mg/l.
  - no effects on reproduction
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**8 - REACTIVITY DATA**

STABILITY        stable in normal conditions of use.  
                    Avoid warmth (or warmth sources) and humidity.  
MATERIALS TO BE AVOIDED   acids, quick lime, zinc, aluminium.  
HAZARDOUS DECOMPOSITION PRODUCTS   : none.

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**9 - SPILL, LEAKAGE & DISPOSAL PROCEDURES**

CLEAN UP PROCEDURE        Pick up mechanically avoiding making dust,  
                                    Put in compatible containeres (close well and label them)  
                                    Rinse contaminated place with plenty of water.  
PRECAUTIONS FOR ENVIRONMENTAL PROTECTION  
                                    Avoid releasing in the environment (sewerage systems, rivers,...)  
                                    Inform the authorities in case of release of large quantities.  
WASTE DISPOSAL METHOD  
                                    Dissolve the product to be disposed in water, neutralize with an acid, dilute in  
                                    large quantities of water, after this treatment, the product can be disposed in  
                                    sewerage system.

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**10 - SPECIAL PROTECTION DATA**

GENERAL MEASURES - ventilated place, aspiration on place of emission if necessary.  
                                    - security showers and eye-wash.  
RESPIRATORY PROTECTION appropriated anti dust mask.  
HAND PROTECTION    protection gloves (recommended materials: rubber, neoprene).  
EYE PROTECTION     if there is a risk of dust: hermetic anti-dust goggles.  
                                    if there is a risk of projection: face screen.  
SKIN PROTECTION    - body covering clothes  
                                    - overgarnments and boots if there is a risk of dust or projections.

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**11- SPECIAL PRECAUTIONS DATA**

HANDLING                - Operate in a well ventilated place.  
                                    - Manipulate far away from reactivities substances .  
STORAGE                - in a dry place  
OTHERS                 - Inform personel of product dangers.  
                                    - Avoid making of dusts.  
                                    - Respect protection measures.

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**12- TRANSPORTATION INFORMATION**

This material is not a hazardous material and is not regulated by the D.O.T.

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The above information is based on the present state of our knowledge of the product at the time of the up-dating. It is given in good faith, no warranty is implied with respect to the quality or the specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.

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