

MATERIAL SAFETY DATA SHEET

REVACALCIUM-UP

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1 - IDENTIFICATION OF THE SUBSTANCE :

CHEMICAL NAME & SYNONYMS: calcium chlorid
FORMULA CaCl₂, x.H₂O (with x = 0, 1, 2 or 6)
TRADE NAME : REVACALCIUM-UP
USE : Calcium increaser for swimming pool waters
DESCRIPTION: White or slightly colored solid (flakes or powder)..
CAS NO. : 10043-52-4

2 - PHYSICAL DATA :

pH (at 100g/l) : 9.0 - 10.5(at 68F / 20°C)
TEMPERATURES - Boiling Point: > 2912F (1 600°C).
- Fusion points : 1425F / 773,9°C (CaCl₂)
500F / 260°C (CaCl₂, H₂O)
85,8F / 29,9°C (CaCl₂, 6.H₂O)
- Decomposition of the active material > 1422F / 772°C
FLASH POINT : not applicable
EXPLOSIVITY : not applicable
VOLUME MASS : 800 - 900 kg/m³ (apparent volumic mass)
DINAMIC VISCOSITY : not applicable
SOLUBILITY - in the water : 783 g/l at 0°C.
- other solvents :Alcohol, Acetic Acid, Aceton (anhydrous CaCl₂).
- Not soluble in organic solvents.
OTHER PROPERTIES : - strongly hygroscopic

3 – HAZARDOUS INGREDIENTS

MATERIAL	CAS N°	BY WEIGHT	HAZARD DATA
calcium chlorid	10043-52-4	100 %	Irritant to the eyes

4 - FIRE AND EXPLOSION HAZARD DATA

SPECIFIC DANGERS The product is uncombustible
EXTINCTION MEANS all means are authorized.
However, if possible, take away containers exposed to the fire, or cool them down with sprayed water.
The presence of product in a fire does not imply particular precautions.

5 - HEALTH HAZARD DATA

The toxicity is mainly due to the irritant properties of the product :

INHALATION	slight nose irritation
SWALLOWING	slight mouth and throat irritation
EYE CONTACT	irritation, crying, red eyes
SKIN CONTACT	irritation and red blotches if skin is wet.

6 - EMERGENCY AND FIRST AID PROCEDURE

INHALATION	Take victim away from empowdered atmosphere, make him blow his nose
EYE CONTACT	Rinse eyes with water for a few minutes, keeping eyes wide open. Seek medical advice if pain goes on.
SKIN CONTACT	Wash properly with water and soap
SWALLOWING	Rinse mouth, give fresh water to drink.

7 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	LD50 oral (rabbit) = 1000mg/kg Eye irritation (rabbit) : irritant Skin irritation (rabbit) : not irritant
CHRONICAL TOXICITY	No mutagenous, teratogenous or carcerigenous effects.
APPRECIATION	The toxicity is mainly due to the irritant properties of the product.

8 - REACTIVITY DATA

STABILITY	The product is stable in normal conditions of storage and use.
REACTIVITY	No reaction spontaneous nor incompatibility susceptible of generating a violent reaction.
INCOMPATIBLE MATERIALS	: -

9 - SPILL, LEAKAGE & DISPOSAL PROCEDURES

CLEAN UP PROCEDURE

Pick up product mechanically. Put it in a closed, labelled container, compatible with the product. Flush contaminated area with water.

Do not release large quantities in the environment (sewerage systems, rivers, soils, ...)

DISPOSAL CONSIDERATIONS :

- treatment of residues : Dilute with lots of water. The product may be released in the sewerage system.
- treatment of packagings : Rinse packaging and treat residue as product. Emptied containers may be re-used, recycled or treated as usual rubbish.

10 - SPECIAL PROTECTION DATA

TLV (ACGIH) (1992-93) : 10 mg / m3 (PNOC)

Technical measures : suitable ventilation.

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RESPIRATORY PROTECTION : appropriated anti dust mask.
HAND PROTECTION : Protective gloves (PVC, Neoprene, rubber).
EYE PROTECTION : Goggles must be used in all cases
SKIN PROTECTION : Suitable clothing, according to quantities handled.

OTHERS : Overgarments / boots in case of large quantities of dust.

11- SPECIAL PRECAUTIONS DATA

STORAGE : In a dry place, in the original, closed container.

RECOMMENDED MATERIALS : Polyethylene or paper bags.

12- TRANSPORTATION INFORMATION

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

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.
