

REVA CHLOR LIQUID

1 - IDENTIFICATION OF THE SUBSTANCE :

NAME **REVA CHLOR LIQUID**

USE Disinfectant and algacide product for pool water treatment.

MANUFACTURER **MAREVA PISCINES ET FILTRATIONS**
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Emergency dial number +33 (0)4.91.75.25.25 (Poison control center of MARSEILLES)

2 - HAZARDS IDENTIFICATION :

HAZARDS FOR HUMANS Causes burns (before dilution)
Contact with acids liberates toxic gas

HAZARDS FOR THE ENVIRONMENT: Very toxic to aquatic life

This product is not classified as flammable.

3 - COMPOSITION / INFORMATION ON COMPONENTS:

Substances used in the preparation:

Sodium hypochlorite = NaClO

C.A.S. N° =7681-52-9

INDEX N° = 017-011-00-1

EC N° = 231-668-3

C, N, R31, R34, R50

COMPOSITION 12.5° Chlorometric Sodium hypochlorite that is about 3,6% of active chlorine.

4 - FIRST AID MEASURES:

CONTACT WITH EYES Wash immediately with plenty of water for 15 minutes while maintaining eyes open. Seek medical advice .

CONTACT WITH SKIN Wash immediately with plenty of water. Warning: Immediately take off all contaminated clothes (re-use them only once cleaned).
In case of irritations, seek medical advice.

INGESTION If swallowed, do not give to drink, do not induce vomiting and immediately bring the victim to hospital in an ambulance. Show the label to the doctor.
Never give anything to drink or eat to an unconscious person.

INHALATION Bring the person to fresh air.
If breathing is irregular or stopped, do artificial respiration and call a doctor .
If the person is unconscious, put her in safety lateral position and call an ambulance.

5 - FIRE FIGHTING MEASURES :

The product is non-flammable and non-combustible but it may cause fire of other substances.

EXTINGUISHING MEANS	In case of fire, flood with plenty of water Only use water. Spray water to cool down the containers exposed to the fire. Prevent fire fighting effluents from going into sewer or rivers.
EQUIPMENTS	Protective clothing (with total face protection). Wear a self-contained breathing system (the gases released during combustion are toxic).

6 - ACCIDENTAL RELEASE MEASURES :

PRECAUTION

Contain and pick up leaks with non combustible absorbing materials (sand, earth, ...) and put into drums for waste disposal (according to regulations in force)
Prevent product from going into sewer and rivers (except in case of destruction and dilution)
If the product contaminates ground water, rivers or sewer, warn competent authorities according to regulatory procedures.

CLEANING

To neutralize, add a soft reducer such as sodium bisulphite or thiosulphate in very diluted medium. When reduction is complete, neutralize and dilute with water.

7 - HANDLING AND STORAGE :

HANDLING	Avoid contact with eyes, skin and clothes. Do not breathe fumes. Do not smoke. Use suitable equipments according to handling type and duration.
STORAGE	Keep container in a cool, dry and well aerated place. Keep out of reach of children and pets. Do not store in metallic containers. Store in plastic containers (vinyl polychloride or polyethylene)

Keep away from fire, heat and direct sun light.
Keep away from flammable liquids, combustibles, and any other oxidable material.

8 - EXPOSURE CONTROLS - PERSONAL PROTECTION :

Only handle product in well aerated places.

PERSONAL PROTECTION	Chemical-proof gloves, goggles, waterproof work clothes. Safety showers and eyewash next to work places. Breathing system with protection cartridge against gas chlorine.
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9 - PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE : liquid with yellow-green glint
ODOUR : chlorine
ACID-BASIC CHARACTERIST : strong base
pH (when measurable) : >9
DECOMPOSITION : not specified
FUSION : -6°C
RELATIVE DENSITY : 1,04 kg/l
SOLUBILITY IN THE WATER : soluble in all proportions

10 - STABILITY AND REACTIVITY :

STABILITY A contact with heat may cause toxic gas release

INCOMPATIBILITIES

- do not put in contact (not even next to) trichloroisocyanuric acid, or "organic chlorine based" products
- the acids, whatever they may be (release of toxic gas in dangerous quantity),
- the organic materials or easily chlorinated or oxidized materials (risk of fire),
- oils, greases or sawdust,
- alcohols, ethers, biurea, and solvents such as toluene, xylenes, ...
- ammoniac (may lead to nitrogen creation)

PRODUCT WITH DANGEROUS DECOMPOSITION

It slowly decomposes with creation of sodium chlorate and chloride and release of oxygen.

11 - TOXICOLOGICAL INFORMATION :

INHALATION High concentrations may cause: irritations of mucosa, corrosion of mucous membrane, symptoms of bronchitis.
Cough, difficult breathing or other signs of intoxication may appear after a few hours.

CONTACT WITH EYES Serious eye irritation, serious eye corrosion, blindness.

CONTACT WITH SKIN The effects of contact with skin may include: red spots.

INGESTION The symptoms are: burns of digestive and superior respiratory system, abdominal pain.

12 - ECOLOGICAL INFORMATION:

Effects on the environment May be dangerous for the environment. At high concentrations, negative effects (due to pH) are observed on the aquatic life.
Do not release pure product in the environment (sewer, rivers, ...).

Aquatic toxicity Toxic to fishes. LC50 (goldfish - 96h) = 0,16 - 1,56 mg/l

15 - REGULATORY INFORMATION: (conform to the orders of 20 april 1994 and/or 21 february 1990 and adaptations, dealing with classification and labelling of hazardous substances and preparations)

"Sodium Hypochlorite in solution"

"Warning! do not use in combination with other products, dangerous gas (chlorine) may be released"

Danger symbol

C - Corrosive + **N** - Dangerous for the environment.



R phrases

- 31 - Contact with acids liberates toxic gas
- 34 - Causes burns
- 50 - Very toxic to aquatic organisms

S phrases

- 1/2 - Keep locked up and out of reach of children
- 26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 28 - After contact with skin, wash immediately with plenty of water.
- 29 - Do not empty into drain
- 36/37/39 - Wear suitable protective clothes, gloves and eye/face protection
- 45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label)
- 50 - Do not mix with an acid

16 - ADDITIONAL INFORMATION :

Indications on the classification of the substances used in the formulation:

R31: contact with acids liberates toxic gas

R34: causes burns

R50: very toxic to aquatic organisms

Additional information

The information contained in this safety data sheet are based on our knowledge and mail legal and regulatory texts related to the product, and promulgated at the date of updating of this document.

This safety data sheet was written and must be used only for this product.

See instructions for use on labels or seek information from your professional retailer.

Combined nomenclature (INTRASTAT) for customs statistics = **380894200**