

# MATERIAL SAFETY DATA SHEET

## REVATOP +

### MAREVA INC.

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### 1 - IDENTIFICATION OF THE SUBSTANCE :

CHEMICAL FAMILY : Inorganic Peroxyd  
 FORMULA : H2O2  
 OTHERS SUBSTANCES : stabilizer (APA)  
 TRADE NAME : **REVATOP +**  
 USE : Product used to clarify swimming pool water.  
 DESCRIPTION : Clear, colorless liquid, slightly pungent.  
 CAS NO. : 7722-84-1  
 HMIS HASARD DATA : Health Hasard : 2 Flammability : 0 Reactivity : 1

### 2 - PHYSICAL DATA

pH at 68F/20°C ( pure product) < 2.00  
 TEMPERATURES : - freezing : -22F / -30°C  
 - decomposition >140F / 60°C  
 FLASH POINT : not applicable  
 EXPLOSIVITY : not explosive  
 VOLUME MASS : 1140 kg/m3  
 VAPOR PRESSURE : 27 mBar  
 CINEMATIC VISCOSITY : 1.15 . 10-3 mm<sup>2</sup>/s  
 SOLUBILITY : soluble in water in all proportions

### 3- HAZADOUS INGREDIENT

MATERIAL	CAS N°	BY WEIGHT	HAZARD DATA
hydrogen peroxyde	7722-84-1	34.5%	Corrosive product.

### 4 - FIRE AND EXPLOSION HAZARD DATA :

FLASH POINT : not applicable  
 EXTINCTION MEANS : Sprayed Water. Foam extinguishers. CO2 extinguisher  
 FORBIDDEN EXTINCTION MEAN : Powder extinguisher (catalyses decomposition of the product).  
 PROTECTION EQUIPMENT : Chemical products fire fighting equipement . Wear a self-contained breathing apparatus  
 SPECIFIC DANGERS : Packaging exposure to heat (> 60°C/140F) provokes the decomposition of the product, with formation of a large volume of oxygene (overpression and bursting of packaging). This oxygene pokes fire.  
 PRECAUTIONS : In case of fire, keep other packagings away from the danger zone.  
 Hose (sprayed water) the packaging near the fire (to cool down).

### 5 - HEALTH HAZARD DATA :

Physico-chemical risk: Corrosive product.  
 Skin and eye contact: Irritations and burnings (temporary bleaching of skin).  
 Ingestion: Irritation of mucous membranes and abdominal pain.  
 Inhalation: In case of prolonged exposure, the product is irritant to respiratory system.

**6 - EMERGENCY AND FIRST AID PROCEDURE :**

INHALATION	Bring the victim to open air.
EYE CONTACT	Rinse immediately with plenty of water (eyes wide open) See a specialist if irritations continue.
SKIN CONTACT	Wash immediately with plenty of water. Seek medical attention if irritations continue.
SWALLOWING	Do not induce vomiting. Drink tepid water (if the victim is conscious) See a specialist if pain continues.

**7 - TOXICOLOGICAL INFORMATION :**

STRONG TOXICITY	LD 50 ingestion (rat) = 1640 mg/kg LD 50 skin (rabbit) = 1410 mg/kg LD 50 inhalation (rat) = 450 mg/kg
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**8 - REACTIVITY DATA :**

STABILITY	The product is stable between 14 to 140F ( -10 to +60°C) in normal conditions of storage.
REACTIVITY	Product stability diminishes with dilution, presence of heavy metals,.. Decomposition of the product is exothermic and auto-catalysed with formation of a large volume of oxygene (over pressing and bursting of packaging). This oxygene pokes fire. Do not put in contact with alkaline or reducer combustibles.

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

PERSONAL PRECAUTIONS	suitable clothing
WARNING	prevent the product from being released in sewerage systems .
CLEAN UP PROCEDURE	for large quantities, absorbe the product on a neutral material (sand, earth) but avoid rag, sawdust and any other combustible product. Rinse the container before disposal.
DESTRUCTION	Dilute the product in large quantities of water. Put the solution in the sewer system if regulations authorize it. If not, the diluted product can be destroyed thanks to a reducer, for example : sodium thiosulfate in solution.

**10- SPECIAL PROTECTION DATA**

HAND PROTECTION	waterproof gloves (rubber, PVC,...)
EYE PROTECTION	goggles
BODY PROTECTION	suitable clothing, body covering.

**11- SPECIAL PRECAUTION DATA**

HANDLING	Usual precautions for handling of acid products. Keep in original container, use degazing cap, supplied with original container
STORAGE	Store in a fresh and well ventilated room. Avoid exposure to any heat source (heating, sun,...) Store packaging straight (vented cap)
<b>Compatible materials :</b>	Passive inoxydizable steels (AISI 304 and 316) , high density polyethylene, polypropylene, glass.
<b>Incompatible materials :</b>	Black steel, iron and any other material potentially combustible...

**12 - TRANSPORT INFORMATION :**

UN 2014	
PROPER SHIPPING NAME	Hydrogen Peroxide Aqueous Solution (20-60%) UN 2014 - Class 5.1 - Packaging group = II - EMS = 5.1-02
AIRWAY TRANSPORT	Class = 5.1 - Label = oxidizer - (Max. quantity= 0.5 kg, in UN agreed packaging)

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.