

MATERIAL SAFETY DATA SHEET

REVA-ACT

Mareva Inc.
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1 – IDENTIFICATION OF THE SUBSTANCE:

CHEMICAL NAME: Pentapotassium bis (peroxymonosulfate) bis (sulphate)
 CHEMICAL FAMILY: Persulfates
 TRADE NAME: REVA-ACT
 DESCRIPTION: white granular, free flowing, odorless
 CAS NO: 70693-62-8
 HMIS HAZARD RATINGS: Health Hazard: 2 Fire Hazard: 0 Reactivity: 1

2 – PHYSICAL DATA

BOILING POINT : N/A
 PERCENT VOLATILE (by wt.) : N/A
 SOLUBILITY IN WATER : soluble in any proportion
 SPECIFIC GRAVITY : N/A
 MELTING POINT : Decomposes
 EVAPORATION RATE : N/A (Butyl Acetate=1)
 VAPOR PRESSION : N/A
 pH : 2.00 to 3.00 (after dissolution)

3 – HAZARDOUS INGREDIENTS

MATERIAL	CAS n°	% by weight	HAZARD DATA
Pentapotassium bis (peroxymonosulfate) bis (sulphate)	70693-62-8	70-85%	corrosive
Sodium carbonate	497-19-8	<25%	cause eye irritation

4 – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : N/A
 FLAMMABLE LIMIT IN AIR : N/A (% by volume)
 SPECIAL FIRE FIGHTING PROCEDURE : None
 AUTO IGNITION TEMP : N/A
 EXTINGUISHING MEDIA : Water

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Storage of large masses of product can trap heat and lead to ignition of paper bags. Grinding or intensive mixing may cause ignition of oxidizable material present

5 – HEALTH HAZARD DATA

POTENTIAL HEALTH EFFECTS: Cause burns. May cause allergic skin reactions at high concentrations in sensitive individuals. Ingestion may cause inflammation and damage to the lining of the stomach, resulting in bleeding.

SKIN AND EYE: Contact may cause burns.

INHALATION: HARMFUL IF SWALLOWED. Inhalation may cause irritation of the upper respiratory passages with coughing and discomfort.

INGESTION may cause gastritis possibly progressing to necrosis or hemorrhage. Individuals with preexisting diseases of the skin or gastrointestinal tract may have increased susceptibility to the toxicity of excessive exposures.

6 – EMERGENCY AND FIRST AID PROCEDURE

SKIN: Immediately flush the skin with soap and water. Wash contaminated clothing before reuse.

EYE: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION: If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

CHEMICALS LISTED AS CARCINOGEN BY: None of the components present in this material at concentrations equal to or greater than 0.1 % are listed by IARC, NTP, OSHA, or ACGIC as a carcinogen.

7 – TOXICOLOGICAL INFORMATION

ORAL LD50 (rats) : 2,000 mg/Kg

SKIN ABSORPTION LD50 (rabbits) : >11,000 mg/Kg

INHALATION (4-hr.) LC50 (rats) : > 5 mg/L

This product is a severe skin and eye irritant, but is not a skin sensitive in laboratory animals.

Single inhalation exposures produce non specific effects such as weight loss and irritation.

Repeated inhalation exposures produced eye irritation and reversible corneal damage. By ingestion, the administration of large single dosed produced non specific effects such as weight loss and irritation as well as gastric ulceration, necrosis and hemorrhage. The compound does not produce genetic damage in bacterial cell cultures.

8 – REACTIVITY DATA

STABILITY : Stable

CONDITIONS TO AVOID : N/A

INCOMPATIBILITY (materials to avoid) : This mixtures with compounds containing halides or active halogens can cause release of the respective halogen if moisture is present. For example, mixture with sodium dichloroisocyanurate or with sodium chloride can cause release of chlorine gas; mixture with cyanides can cause release of hydrogen cyanide gas and heavy metal salts such as those of cobalt, nickel, copper or manganese cause the evolution of oxygen.

HAZARDOUS DECOMPOSITION PRODUCTS : Releases oxygen gas.

HAZARDOUS POLYMERIZATION : Will no occur.

9 – SPILL, LEAKAGE & DISPOSAL PROCEDURES

STEP TO TAKE IF MATERIAL LEAKS OR SPILLS: Sweep up. Flush area with low pressure water.

WASTE DISPOSAL: Comply with federal, state and local regulations. If approved, flush to sewer or waste treatment plant. Large quantities should be neutralized with soda ash.

10 – SPECIAL PROTECTION DATA

EYE/FACE PROTECTION: Wear safety glasses. Wear coverall chemical splash goggles and face shield when the possibility exists for eye or face contact from airborne material.

RESPIRATORY PROTECTION: A NIOSH/MSHA approved air-purifying respirator with a dust/mist cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstances where air purifying respirators may not provide adequate protection.

OTHER EQUIPMENT: Wear impervious clothing, such as gloves, apron, boots made of rubber, as appropriate. Leather gloves may be used when handling dry material.

11 – SPECIAL PRECAUTIONS DATA

HANDLING AND STORAGE: Avoid breathing dust. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Store in cool, dry, well ventilated area. Stack on pallets providing air space, closely stacked bags should not exceed 4 cubic feet (1.2m³). Keep packages dry. Do not store with combustible materials.

12 – TRANSPORTATION INFORMATION

UN 3260

PROPER SHIPPING NAME: Corrosive solid, acidic, inorganic, N.O.S. (Monopersulfate compound), CLASS 8 - PG II. Danger code : 80