



KENCRO

CHEMICALS

PRODUCT: SODIUM PERSULPHATE

I. PRODUCT INFORMATION

SYNONYMS: SODIUM PEROXYDISULFATE; PEROXYDISULFURIC ACID, DISODIUM SALT

CAS NO: 7775-27-1

MOLECULAR WEIGHT: 238.03

CHEMICAL FORMULA: Na₂O₈S₂

PRODUCT CODES: V035

II. SUMMARY OF HAZARDS

EMERGENCY OVERVIEW

DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE BURNS TO SKIN AND EYES. CAUSES RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC SKIN OR RESPIRATORY REACTION.

III. HAZARDOUS COMPONENTS

NOTE: OSHA ESTABLISHES A PEL OF 15 MG/M³ (TOTAL DUST) AND 5 MG/M³ (RESPIRABLE DUST) FOR "PARTICULATES NOT OTHERWISE REGULATED." THE ACGIH TLV IS 10 MG/M³ FOR THESE PARTICLES. RISKS INCLUDE REDUCED VISIBILITY AND PHYSICAL IRRITATION.

CHEMICAL NAME	CAS NO.	%	EXPOSURE LIMITS		
			PEL	TLV	OTHER
SODIUM PERSULFATE	7775-27-1	> 99	NONE	NONE	SEE NOTE
AMORPHOUS FUMED SILICA	112945-52-5		0.05-1	NONE	NONE SEE NOTE

NO CARCINOGENICITY DESIGNATED BY NTP, IARC, OSHA, OR ACGIH.

IV. CHEMICAL AND PHYSICAL PROPERTIES

PH: 6.0% (1% SOLUTION) % VOLATILES BY VOLUME @ 21C (70F)

BOILING POINT:	NOT APPLICABLE	VAPOR PRESSURE:	NOT APPLICABLE
MELTING POINT:	DECOMPOSES AT 180°C	VAPOR DENSITY:	NOT APPLICABLE
SOLUBILITY:	APPRECIABLE (>10%)	SPECIFIC GRAVITY:	2.40
		EVAPORATION RATE:	NOT APPLICABLE

APPEARANCE/ODOR: WHITE POWDER WITH NO ODOUR.

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V. HEALTH HAZARD DATA AND FIRST AID PROCEDURES

AMORPHOUS SILICA, UNLIKE CRYSTALLINE SILICA, IS CONSIDERED BIOLOGICALLY BENIGN.

CHEMICAL NAME	TOXICITY DATA	
	LD50	LC50
SODIUM PERSULFATE	1000 mg/kg ORAL, RAT	NOT AVAILABLE
AMORPHOUS FUMED SILICA	>1000 mg/kg ORAL, RAT	NONE ESTABLISHED

EYE CONTACT: CAN CAUSE SEVERE IRRITATION OR BURNS WITH EYE DAMAGE. IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, LIFTING LOWER AND UPPER EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT: CAUSES SEVERE IRRITATION OR BURNS. SYMPTOMS INCLUDE REDNESS, ITCHING AND PAIN. MAY CAUSE ALLERGIC SKIN REACTIONS. IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION IMMEDIATELY. WASH CLOTHING BEFORE REUSE. THOROUGHLY CLEAN SHOES BEFORE REUSE.

INHALATION:
COUGHING, CAUSES IRRITATION TO THE RESPIRATORY TRACT. SYMPTOMS MAY INCLUDE SORE THROAT, SHORTNESS OF BREATH, INFLAMMATION OF NASAL PASSAGES, AND WHEEZING. MAY CAUSE LUNG EDEMA, A MEDICAL EMERGENCY. ANY EXPOSURE MAY CAUSE AN ALLERGIC REACTION. ASTHMA-LIKE SYMPTOMS AND LIFE-THREATENING SHOCK MAY RESULT. REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: CAUSES SEVERE IRRITATION AND POSSIBLE BURNS TO THE MOUTH AND THROAT. GASTROINTESTINAL DISTURBANCES MAY BE EXPECTED WITH NAUSEA, ABDOMINAL PAIN, AND VOMITING. IF SWALLOWED, **DO NOT INDUCE VOMITING**. GIVE LARGE QUANTITIES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.

CHRONIC EFFECT OF EXPOSURE: NO INFORMATION FOUND

OTHER HEALTH EFFECTS: PERSONS WITH IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

VI. EXPOSURE CONTROL MEASURES

EYE PROTECTION:	EYE PROTECTION IS REQUIRED
PROTECTIVE GLOVES:	WEAR CHEMICAL RESISTANT GLOVES
RESPIRATORY PROTECTION:	AIR PURIFYING RESPIRATOR SHOULD BE USED DURING ANY OPERATION WHERE THERE IS POTENTIAL FOR RELEASE OF THIS PRODUCT TO WORKPLACE AIR.
OTHER PROTECTION:	IF SKIN CONTACT OR CONTAMINATION OF CLOTHING IS POSSIBLE, CHEMICAL RESISTANT CLOTHING MUST BE WORN.
VENTILATION:	PROVIDE LOCAL EXHAUST VENTILATION TO ELIMINATE THE RELEASE OF DUST AT ITS SOURCE.
PERSONAL HYGIENE/ WORK PRACTICES:	ESTABLISH GOOD PERSONAL HYGIENE AND WORK PRACTICES. ALWAYS WASH HANDS AND FACE BEFORE EATING, DRINKING OR SMOKING. REMOVE CONTAMINATED CLOTHING AND LAUNDRY BEFORE REUSE.

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VII. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	DOES NOT FLASH
FLAMMABLE LIMITS:	LOWER: NONE UPPER: NONE
EXTINGUISHING MEDIA:	DO NOT USE WATER, CO ₂ OR DRY POWDER
FIRE FIGHTING INSTRUCTIONS:	EVACUATE ENCLOSED AND SURROUNDING AREAS. IF SMOKE AND FUMES CANNOT BE AVOIDED, USE PROXIMITY SUIT AND SELF-CONTAINED BREATHING APPARATUS.
FIRE:	NOT COMBUSTIBLE, BUT SUBSTANCE IS A STRONG OXIDIZER AND ITS HEAT OF REACTION WITH REDUCING AGENTS OR COMBUSTIBLES MAY CAUSE IGNITION. HEATING OR CONTACT WITH WATER RELEASES OXYGEN WHICH MAY INTENSIFY COMBUSTION IN AN EXISTING FIRE.

VIII. REACTIVITY DATA

STABILITY:	UNSTABLE. GRADUALLY DECOMPOSES LOSING OXYGEN. DECOMPOSES MORE RAPIDLY AT HIGHER TEMPERATURES. STABILITY DECREASES IN THE PRESENCE OF MOISTURE. METALS OTHER THAN STAINLESS STEEL ARE APT TO CAUSE DECOMPOSITION OF PERSULFATE SOLUTIONS.
INCOMPATIBILITY:	REDUCING AGENTS, ORGANIC MATERIAL, SODIUM PEROXIDE, WATER AND POWDERED METALS ESPECIALLY ALUMINUM.
HAZARDOUS PRODUCTS OF DECOMPOSITION:	OXIDES OF SULFUR AND THE CONTAINED METAL. OXYGEN IS RELEASED.
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR.

IX. ENVIRONMENTAL & DISPOSAL INFORMATION

GENERAL:	ABIOTIC DEGRADATION DUE TO HYDROLYSIS, DECOMPOSITION, REDUCTION.
FISH TOXICITY	LC50 (96 hr) = 323 mg/l, POECILIA RETICULATA NOEC (96 hr) = 100 mg/l, POECILIA RETICULATA
DAPHNIA TOXICITY	EC50 (24 hr) = 357 mg/l, DAPHNIA MAGNA NOEC (24 hr) = 180 mg/l, DAPHNIA MAGNA
ACTION TO TAKE	SEE SECTION V AND VI FOR HAZARDS AND EXPOSURE CONTROLS. FOR SMALL SPILLS
FOR LEAKS/SPILLS:	SWEEP OR SHOVEL SOLIDS INTO PROPER CONTAINER FOR DISPOSAL.
DISPOSAL METHOD:	DISPOSE OF IN ACCORDANCE WITH ALL MUNICIPAL, REGIONAL, PROVINCIAL AND FEDERAL REGULATIONS.

X. PRECAUTIONS FOR SAFE HANDLING, STORAGE AND USE

KEEP IN TIGHTLY CLOSED CONTAINER, STORED IN A COOL DRY, VENTILATED AREA. PROTECT AGAINST PHYSICAL DAMAGE AND MOISTURE. ISOLATE FROM ANY SOURCE OF HEAT OR IGNITION. AVOID STORAGE ON WOOD FLOORS. SEPARATE FROM INCOMPATIBLES, COMBUSTIBLES, ORGANIC OR OTHER READILY OXIDIZABLE MATERIALS. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTY SINCE THEY RETAIN PRODUCT RESIDUES (DUST, SOLIDS); OBSERVE ALL WARNINGS AND PRECAUTIONS LISTED FOR THE PRODUCT.

