

MATERIAL SAFETY DATA

7775

27 1

FLAMMABILITY (RED)

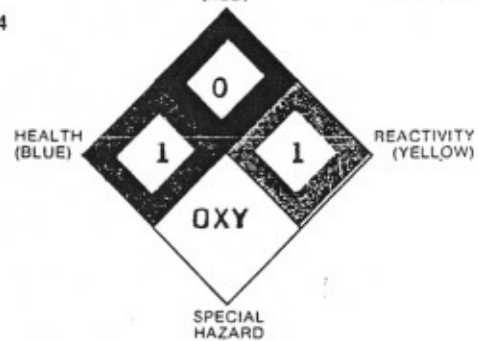
2/86

NFPA Designation 704

SODIUM PERSULFATE

DEGREE OF HAZARD

- 4 = EXTREME
- 3 = HIGH
- 2 = MODERATE
- 1 = SLIGHT
- 0 = INSIGNIFICANT



EMERGENCY TELEPHONE NUMBERS

MEDICAL (303) 595-9048 CALL COLLECT  
 CHEMTREC (800) 424-9300  
 OTHER (716) 876-8300 CALL COLLECT

REVISION: 0 EFFECTIVE: 09/01/85 PRINTED: 11/10/85

PREPARED FOR USE BY..... VAN WATERS & ROGERS INC  
 845 TERRACE COURT

IDENTIFICATION

INFORMATION PROVIDED BY...: FMC CORPORATION  
 2000 MARKET STREET  
 PHILADELPHIA, PA 19103

PRODUCT INFORMATION

SYNONYMS.....: SODIUM PEROXYDISULFATE  
 SHIPPING NAME - DOT.....: SODIUM PERSULFATE OXIDIZER  
                           IATA.....: SODIUM PERSULFATE OXIDIZER  
                           IMCO.....: SODIUM PERSULFATE OXIDIZER  
 FORMULA.....: NA2S2O8  
 CHEMICAL FAMILY.....: PEROXYGEN

PRECAUTIONARY INFORMATION

PRECAUTIONARY STATEMENT...: HEALTH: AIRBORNE DUST MAY BE IRRITATING TO EYES,  
 (PLEASE USE THIS STATEMENT NOSE, THROAT AND SKIN UPON CONTACT. CONTINUOUS  
 TO SATISFY THE IN-PLANT CONTACT MAY PRODUCE SKIN DERMATITIS. INHALATION  
 LABELING REQUIREMENTS OF AIRBORNE DUST AT HIGH LEVELS MAY PRODUCE  
 OF THE OSHA HAZARD SHORTNESS OF BREATH IN ALLERGIC PERSONS.  
 COMMUNICATIONS STANDARD PHYSICAL: DECOMPOSES UNDER FIRE CONDITIONS OR  
 29CFR 1910.1200) EXCESSIVE HEAT TO RELEASE OXYGEN WHICH MAY IN-  
                                   CREASE DEGREE OF COMBUSTION IN OTHER MATERIALS.  
                                   REACTS WITH ACIDS, ALKALIS, HALIDES, COMBUST-  
                                   IBLES AND HEAVY METALS TO RELEASE OXYGEN.

INGREDIENTS

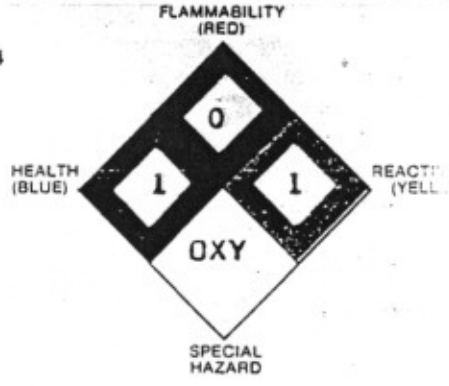
CAS# AND COMPONENT.....: MATERIAL/COMPONENT: DISODIUM PEROXYDISULFATE  
   PERCENT.....: 98%  
   CAS # .....: 7775-27-1  
   HAZARD CLASS.....: OXIDIZER

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PHYSICAL DATA

MELTING POINT.....: DECOMPOSES
BOILING POINT.....: NA
VAPOR PRESSURE.....: NONE
VAPOR DENSITY (AIR - 1).....: NONE
ROOM TEMPERATURE
APPEARANCE AND STATE: WHITE GRANULES
ODOR.....: ODORLESS
SPECIFIC GRAVITY (H2O =1): APPROX. 2.4
SOLUBILITY IN H2O % BY WT: 35% @ 20\*C
% VOLATILES BY VOLUME.....: NONE
EVAPORATION RATE
(BUTYL ACETATE = 1).....: NA
PH (AS IS).....: NA
PH (1% SOLUTION).....: 6.0

FIRE, EXPLOSION AND REACTIVITY DATA

FLASH POINT.....: NONCOMBUSTIBLE
AUTOIGNITION TEMPERATURE.....: NONCOMBUSTIBLE
FLAMABLE LIMITS UPPER.....: NA
(AIR) LOWER.....: NA
EXTINGUISHING MEDIA.....: WATER, WATER FOG
SPECIAL FIREFIGHTING.....: CONSIDER AS STRONG OXIDIZER
PROCEDURES
DEGREE OF FIRE AND.....: DECOMPOSES WHEN HEATED WITH LIBERATION OF
EXPLOSION HAZARD.....: OXYGEN WHICH MAY INTENSIFY FIRE IN COMBUSTIBL
SURROUNDINGS.
STABILITY.....: UNSTABLE
HAZARDOUS POLYMERIZATION.....: WILL NOT OCCUR
CONDITIONS TO AVOID.....: HEAT, MOISTURE, REDUCING AGENTS
MAJOR CONTAMINANTS THAT.....: ACIDS, ALKALIS, HALIDES (FLUORIDES, CHLORIDES
CONTRIBUTE TO INSTABILITY.....: BROMIDES, IODIDES), COMBUSTIBLE MATERIALS,
HEAVY METALS.
INCOMPATIBILITY.....: WITH HEAVY METALS, AND OXIDIZABLE MATERIALS.
HAZARDOUS DECOMPOSITION.....: OXYGEN WHICH SUPPORTS COMBUSTION, SULPHURIC
PRODUCTS.....: ACID MIST AND OZONE.

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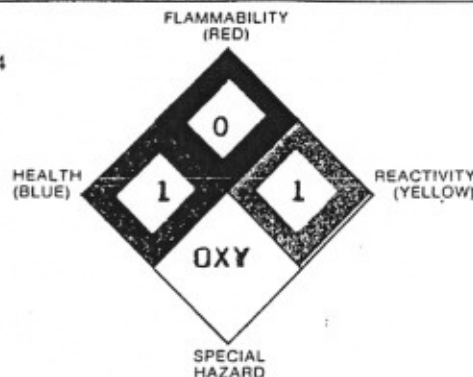
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**ROUTES OF EXPOSURE**

		SOURCE	DATE
EYE CONTACT.....:	NON-IRRITATING. (RABBIT)	FMC	1973
	REF. AMR.120.2047.73		
SKIN CONTACT.....:	NON-IRRITATING (RABBIT) MAY BE SENSITIZER TO ALLERGIC PERSONS.	FMC	1973
	REF. AMR 120.2047.73		
SKIN ABSORPTION.....:	NO SIGNIFICANT HAZARD. DERMAL LD50 ABOVE 10G/KG (RABBIT)	FMC	1973
	REF. AMR.120.2047.73		
INHALATION.....:	NO SIGNIFICANT HAZARD. PROPOSED TLV 5 MG/M3 FOR 8 HRS. 1 HR. LC50 ABOVE 21.0MG/L (RAT)	ACGIH	1985-6
	REF. ICG/T.78.089	FMC	1978
INGESTION.....:	SLIGHTLY HAZARDOUS ORAL LD50=895MG/KG (RAT)	FMC	1979
	REF. ARM/120.2047.73		

**EXPOSURE LIMITS**

	SOURCE	DATE
TLV 5 MG/M3 FOR 8 HOURS	ACGIH	1985-6

**EFFECTS OF OVEREXPOSURE**

ACUTE EXPOSURE.....:	DUST MAY BE HARMFUL AND IRRITATING. MAY BE HARMFUL IF SWALLOWED.
CHRONIC EXPOSURE.....:	ALLERGIC PERSONS MAY DEVELOP DERMATITIS AND ASTHMA. REF. RESPIRATION 38:144 (1979)

**EMERGENCY AND FIRST AID PROCEDURES**

EYES.....:	WASH THOROUGHLY WITH WATER. IF IRRITATION OCCURS AND PERSISTS, OBTAIN MEDICAL ATTENTION.
SKIN.....:	WASH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION PERSISTS, OBTAIN MEDICAL ATTENTION.

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**EMERGENCY AND FIRST AID PROCEDURES**

**INHALATION**.....: REMOVE SUBJECT TO FRESH AIR. IF DISCOMFORT OCCURS AND PERSISTS OBTAIN MEDICAL ATTENTION.

**INGESTION**.....: DRINK WATER. CALL PHYSICIAN.

**DECONTAMINATION PROCEDURE**: WASH THOROUGHLY WITH SOAP AND WATER.

**NOTES TO PHYSICIAN**.....: ASIDE FROM ALLERGIC REACTIONS SUCH AS DERMATITIS AND ASTHMA REPORTED IN ONE CASE ONLY, EXPOSURE PROBLEMS ARE RELATED TO THE OXIDIZING PROPERTIES AND RESEMBLE, AND ARE TREATED LIKE, THOSE CAUSED BY STRONG ACIDS. HOWEVER, ATTEMPTS TO NEUTRALIZE WITH BASIC OR HALIDE-CONTAINING MATERIALS SHOULD BE AVOIDED BECAUSE OF POSSIBLE EXOTHERMIC REACTION. FLOODING OF EXPOSURE AREAS WITH WATER IS SUGGESTED, BUT GASTRIC LAVAGE OR EMESIS INDUCTION FOR INGESTIONS MUST CONSIDER THE POSSIBLE AGGRAVATION OF ESOPHAGEAL INJURY AND THE EXPECTED ABSENCE OF SYSTEM EFFECTS. DEMULCENTS MAY BE HELPFUL. TREATMENT OTHERWISE IS SUPPORTIVE AND SYMPTOMATIC.

**SPECIAL PROTECTION**

**VENTILATION REQUIREMENTS**..: USE ONLY IN WELL VENTILATED AREAS. CONTROL DUST IN WORK PLACE AREA AT OR BELOW PROPOSED TLV (5 MG/M3 FOR 8 HOURS).

**RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT**.....: RESPIRATORY.....: WHEN EXPOSURE ABOVE THE ESTABLISHED STANDARD IS LIKELY, A RESPIRATORY PROTECTION PROGRAM WHICH COMPLIES WITH OSHA GENERAL INDUSTRY STANDARD 1910.134(E) AND RESPIRATORY EQUIPMENT SUCH AS A DUST MASK APPROVED BY NIOSH/MESA SHOULD BE IMPLEMENTED.

**EYES**.....: EYE PROTECTION, SUCH AS CHEMICAL TYPE GOGGLES AND FACE MASK, SHOULD BE WORN WHENEVER SPLASHING, SPRAYING, OR OTHER EYE CONTACT IS LIKELY.

**GLOVES**.....: GENERAL PURPOSE NEOPRENE GLOVES ARE RECOMMENDED

**SPECIAL CLOTHING AND EQUIPMENT**..: NEOPRENE SHOES ARE RECOMMENDED.

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HEALTH  
(BLUE)

REACTIVITY  
(YELLOW)



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===== STORAGE AND HANDLING =====

(PLEASE USE THIS STATEMENT TO SATISFY THE IN-PLANT LABELING REQUIREMENTS OF THE OSHA HAZARD COMMUNICATIONS STANDARD 29CFR 1910.1200)

AVOID PROLONGED OR REPEATED SKIN CONTACT AND USE GOOD PERSONAL HYGIENE. AVOID CONTAMINATION TO PREVENT LOSS OF ACTIVE OXYGEN. STORE IN A CLEAN, COOL, DRY PLACE. STORE IN UNOPENED CONTAINERS UNTIL READY FOR USE. FOR STORAGE REQUIREMENTS, REFER TO THE NFPA BULLETIN 43A ON THE STORAGE OF LIQUID AND SOLID OXIDIZING MATERIALS. NFPA HAZARD CLASS 1 OXIDIZER. IMCO HAZARD CLASS 5.1 OXIDIZER.

===== DISPOSAL, SPILL OR LEAK PROCEDURES =====

PROCEDURE FOR RELEASE.....: OR SPILL

MATERIAL SHOULD BE PUT INTO AN APPROVED DOT CONTAINER THEN DILUTED WITH LARGE QUANTITY OF WATER AND DISPOSED OF ACCORDING TO THE METHODS OUTLINED BELOW FOR WASTE DISPOSAL. AN ACCEPTABLE METHOD OF DISPOSAL IS TO DISSOLVE IN WATER AND DISPOSE VIA A TREATMENT SYSTEM IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL ENVIRONMENTAL LAWS, RULES, REGULATIONS, STANDARDS AND OTHER REQUIREMENTS. BECAUSE ACCEPTABLE METHODS OF DISPOSAL MAY VARY BY LOCATION, AND BECAUSE REGULATORY REQUIREMENTS MAY CHANGE, THE APPROPRIATE REGULATORY AGENCIES SHOULD BE CONTACTED PRIOR TO DISPOSAL.

WASTE DISPOSAL METHOD.....:

===== TRANSPORTATION DATA =====

DOT PROPER SHIPPING NAME.: SODIUM PERSULFATE  
DOT CLASSIFICATION.....: OXIDIZER  
DOT LABELS.....: OXIDIZER  
DOT MARKING.....: SODIUM PERSULFATE UN 1505  
DOT PLACARD.....: OXIDIZER  
UN NUMBER.....: 1505  
HAZARDOUS SUBSTANCE/RQ...: NOT LISTED  
49 STCC NUMBER.....: 4918733

EMERGENCY ACCIDENT PRECAUTIONS AND PROCEDURE: WASH DOWN AREA WITH LARGE AMOUNTS OF WATER.

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PRECAUTIONS TO BE TAKEN...:  
IN TRANSPORTATION

KEEP MATERIAL COOL AND DRY.

CMA CHEMCARD NUMBER.....:

NONE

TYPE PACKAGES.....:

25 KG. BAG,\* 44C AND 25 KG DRUM 21C250  
\*DOT EXEMPTION 6523

OTHER SHIPPING IDS.....:

ADDITIONAL REGULATORY INFORMATION

MATERIAL IS REPORTED IN  
EPA TSCA INVENTORY LIST?

YES

MATERIAL IS LISTED AS A  
CARCINOGEN/POTENTIAL  
CARCINOGEN IN FOLLOWING

NTP ANNUAL REPORT... ?

NO

IARC MONOGRAPHS..... ?

NO

OSHA 29CFR PART 1910  
SUBPART Z ?

NO

ADDITIONAL INFORMATION

AQUATIC TOXICITY CLASSIFICATION - NIOSH RTECS  
NO. 79-100

EFFECT OF LOW CONCENTRATIONS ON AQUATIC LIFE ARE  
UNKNOWN.