

The original non-toxic heavy liquid
sodium polytungstate
 $3\text{Na}_2\text{WO}_4 \cdot 9\text{WO}_3 \cdot \text{H}_2\text{O}$

Company

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Material Safety Data Sheet for Sodium Polytungstate

February 1999

SECTION 1 : CHEMICAL IDENTIFICATION

PRODUCT #: SPT

TRADE NAME: SODIUM POLYTUNGSTATE (SPT)

CHEMICAL NAME: SODIUM METATUNGSTATE

CHEMICAL FAMILY: ISOPOLYTUNGSTEN COMPOUND

CHEMICAL FORMULA: $3\text{Na}_2 \cdot (\text{WO}_4 \cdot 9\text{WO}_3) \cdot \text{H}_2\text{O}$

DANGER SYMBOL: Xn

CAS# 12141-67-2

SECTION 2 : COMPOSITION / INFORMATION ON INGREDIENTS (COMPONENTS)

SODIUM METATUNGSTATE

CAS #:12141-67-2

SECTION 3 : HAZARDS IDENTIFICATION - POSSIBLE DANGERS

WEAR SUITABLE PROTECTION CLOTHING. AVOID CONTACT AND INHALATION. AVOID PROLONGED OR REPEATED EXPOSURE. HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED. DETRIMENTAL TO HEALTH WHEN SWALLOWED. DETRIMENTAL FOR WATER ORGANISMS.

SECTION 4 : FIRST-AID MEASURES

IN CASE OF INHALATION MOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. IN CASE OF CONTACT WITH SKIN, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER. IN CASE OF CONTACT WITH EYES, IMMEDIATELY FLUSH EYES KEEPING THE EYELIDS OPEN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN. IF SWALLOWED, WASH MOUTH OUT WITH WATER PROVIDED PERSON IS CONSCIOUS. DRINK PLENTY OF WATER. INDUCE VOMITING. CALL A PHYSICIAN.

WASH CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 5 : FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA NONCOMBUSTIBLE. USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS. WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTED CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES. UNUSUAL FIRE AND EXPLOSION HAZARDS EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

WEAR THE PROTECTIVE PERSONAL CLOTHING AS STATED IN SECTION 8. DO NOT ALLOW IN SEWAGE SYSTEMS, LAKES OR RIVERS. BEFORE REMOVAL WET THE MATERIAL RESPECTIVELY COVER WITH WET INERT MATERIAL OR ABSORB ON SAND OR VERMICULITE. WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE. PLACE MATERIAL IN CLOSED AND LOCK ABLE CONTAINERS FOR DISPOSAL. LABEL CONTAINERS. VENTILATE AREA.

SECTION 7 : HANDLING AND STORAGE

STORE IN A COOL DRY PLACE. STORE AT ROOM TEMPERATURE IN CLOSED ORIGINAL CONTAINERS. SUBJECT TO DUST EXPLOSIONS. AVOID DEPOSITION OF DUST. AVOID PROLONGED OR REPEATED EXPOSURE. USE DUST TIGHT CLOTHING MEANS FOR FILLING AND REFILLING. WASH THOROUGHLY AFTER HANDLING. KEEP TIGHTLY CLOSED. REFER TO SECTION 8.

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

WARE RESPIRATOR. NIOSH / MASA-APPROVED RESPIRATOR IN NON VENTILATED AREAS / OR FOR EXPOSURE ABOVE THE ACGIH TLV. CHEMICAL SAFETY GOGGLES. RUBBER BOOTS AND HEAVY RUBBER GLOVES. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE. WASH THOROUGHLY AFTER HANDLING. MECHANICAL EXHAUST REQUIRED.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

CRYSTALLINE POWDER. COLOR: WHITE TO GREY. SMELL: CAUSING TEARS. PH-VALUE: APPROXIMATE 3 AT 4000 g/l WATER BY 68°F (20°C). SPECIFIC GRAVITY: ADJUSTABLE FROM 1.0 TO 3.1. FLASH POINT NONE. MELTING TEMPERATURE: DECOMPOSITION. BOILING TEMPERATURE: NOT APPLICABLE. IGNITION TEMPERATURE: NOT APPLICABLE. EXPLOSION LIMITS: NOT APPLICABLE. VAPOR PRESSURE: NOT RELEVANT. DENSITY: ABOUT 5.47 g/cm³ AT 20°C. BULK DENSITY: ABOUT 1570 kg/m³. SOLUBILITY IN WATER: > 1000 g/l AT 20°C. SOLUBILITY IN FAT: < 0.7 g/l 100 g FAT AT 37°C. LOG POW: < - 5.2 AT 68° F (20°C).

SECTION 10 : STABILITY AND REACTIVITY

DANGEROUS REACTION: NOT KNOWN. HAZARDOUS DECOMPOSITION PRODUCTS: NO DANGEROUS

DECOMPOSITION PRODUCTS OBSERVED. HOWEVER SODIUM OXIDE FUMES CAN OCCUR UPON DECOMPOSITION. SOLUTION DECOMPOSE AT ABOUT 175°F (79°C). INCOMPATIBILITIES: STRONG OXIDIZING AGENT. HAZARDOUS POLYMERIZATION: NONE. CONDITIONS TO AVOID: TUNGSTEN MAY REACT WITH SOME FLUORIDE COMPOUNDS AND LEAD DIOXIDE.

SECTION 11 : TOXICOLOGICAL INFORMATION

ACUTE EFFECTS: HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN. MAY CAUSE IRRITATION. TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

SECTION 12 : ECOLOGICAL INFORMATION

WATER RISK CLASS 1: SLIGHTLY DANGEROUS FOR WATER. OTHER DATA NOT YET AVAILABLE.

SECTION 13 : DISPOSAL CONSIDERATIONS

UNUSED MATERIAL: IF POSSIBLE RECOVER. CAN BE DEPOSITED AFTER CHEMICAL-PHYSICAL PRETREATMENT AT A SUITABLE DEPONIE. (WASTE KEY 51540). DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14 : TRANSPORTATION INFORMATION

KEEP SEPARATE FROM FOOD AND SEMI LUXURIES. OTHER INFORMATION NOT AVAILABLE

SECTION 15 : REGULATORY INFORMATION

FOR TUNGSTEN, SOLUBLE COMPOUNDS AS TUNGSTEN: ACGIH TLV-TWA : 1 MG / M3: STEL: 3 MG / M3. OSHA PEL: TWA 8H 1 MG / M3: STEL : 3 MG / M3. SYMBOL : Xn. DANGER MARKING : NOT VERY POISONOUS. SODIUM METATUNGSTATE. R 22: HEALTH RISK WHEN SWALLOWING.

SECTION 16 : OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SOMETU-US SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH ABOVE PRODUCT.



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