NORTHWEST SCREEN SYSTEMS CO.  
4204 E. LAKE ST.  
MINNEAPOLIS, MN. 55406  
(612) 729-7365  
24 HR Emergency phone  
1-800-228-5635 Ext.114  

MATERIAL SAFETY DATA SHEET  
EMULSION REMOVERS  
Nos. 6000 & 6010 & 6040 & 6016 = 6002  
CAS # 7790-28-5  

SECTION I - IDENTIFICATION  
MANUFACTURER’S NAME.............. Northwest Screen Systems Company  
PHONE NUMBER..................... 1-800-221-4079 or (612) 729-7365  
EMERGENCY PHONE NUMBER........ Same as above  
EFFECTIVE DATE.................... October 1, 1988  
REVISED DATE...................... Screen Systems Emulsion Remover  
TRADE NAME....................... Sodium Metaperiodate  
CHEMICAL FAMILY..................  
CHEMICAL FORMULA...............  

SECTION II - HAZARDOUS INGREDIENTS  
HAZARDOUS COMPONENTS .......... HAZARDOUS % .... TLV (Units) .... PROD. CAS #  
N/A  

SECTION III - PHYSICAL DATA  
BOILING POINT (F) ............... N/A  
FREEZING POINT (F) .............. N/A  
VOLATILITY/VOL (%) ............. N/A  
MELTING POINT ................... 300 Deg. C  
VAPOR PRESSURE (mm Hg) ......... N/A  
VAPOR DENSITY (Air=1) ......... N/A  
SOLUBILITY IN H2O ............... 80 g/l at 20 Deg. C  
APPEARANCE/ODOR.................. Odorless, white crystalline powder.  
SPECIFIC GRAVITY (H2O=1) ....... 2.4  
EVAPORATION RATE ............... N/A  
ACIDITY ........................... pH = 4.0 - 4.5 (5% aqueous solution)  

SECTION IV - FIRE AND EXPLOSION HAZARD DATA  
FLASH POINT ..................... N/A  
LOWER FLAME LIMIT .............. N/A  
HIGHER FLAME LIMIT ............. N/A  
EXTINGUISH MEDIA ............... Water  
FOR FIRE .........................
MATERIAL SAFETY DATA SHEET

EMULSION REMOVERS
NO. 6000, 6100 & 6040 & 6016 - 6002

UNUSUAL FIRE HAZARD....Breathing apparatus should be worn as elemental iodine may form as a combustion byproduct. Sodium-meta-periodate is a strong oxidizing agent; therefore, mixtures with combustible materials are readily ignited.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE....LD50 (mouse intraperitoneal) = 58 mg/kg
OVER EXPOSURE EFFECTS....May irritate skin and mucous membranes; can cause eczema and asthma (on inhalation) to allergic persons.

FIRST AID PROCEDURES.....Skin: Wash with plenty of soap and water. Eye: Wash with plenty of water. Ingestion: Induce vomiting and pump out stomach immediately. Inhalation: Move to fresh air. Seek medical advise, if problems due to exposure persist.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY....Stable
CONDITIONS TO AVOID....Excessive heat and moisture
INCOMPATIBLE MATERIALS....Heavy metals, reducing chemicals, organic materials
DECOMPOSITION PRODUCTS....Iodine, oxides, sodium oxide
HAZARDOUS POLYMERIZATION....Will not occur
POLYMERIZATION AVOID....N/A

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL........Sweep up into container suitable for disposal.

WASTE DISPOSAL METHOD....Suggested method: Dissolve waste material in water; heat solution to decompose percarbonate and then neutralize. Dispose in accordance with local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION....Dust filter mask.
EXHALATION............General, sufficient to control fine powder.
PROTECTIVE GLOVES........Recommend
FACE PROTECTION........Safety goggles
OTHER PROTECTIVE EQUIPMENT
SPECIFICATION
SODIUM METAPERIODATE

pH (52/v% at 25 C.)  3.5 - 4.5
Chloride and Bromide (Cl)  0.01% Max.
Iodide (I)  0.001% Max.
Sulphate (SO₄)  0.005% Max.
Heavy Metals (Pb)  0.002% Max.
Iron (Fe)  0.001% Max.
Manganese (Mn)  0.0001% Max.
Nitrogen Compounds (N)  0.01% Max.
Assay (NaIO₄)  99.0-100.3%