

MATERIAL SAFETY DATA SHEET

6002, 6016, 6040, 6080, & 6110 Emulsion Remover Powder

This Material Safety Data Sheet (MSDS) contains toxicology, industrial hygiene, and environmental information for your employees. Please make sure they are provided with this information. It also contains information to assist with meeting community right-to-know and emergency response reporting requirements under SARA Title III and other laws. If you resell this product, provide the buyer with this MSDS or incorporate this information into a new MSDS. Disregard any previous edition of this MSDS. This MSDS was prepared according to the OSHA Hazard Communication Standard (29 CFR §1910.1200) and the ANSI MSDS Standard (ANSI Z400.1) by HAZARD INFORMATION SERVICES 8100 34th Ave. South, P.O. Box 1309, Mpls, MN 55440-1309

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: Screen Systems Emulsion Remover Powder

CHEMICAL NAME: Sodium Metaperiodate

RESPONSIBLE PARTY: Northwest Screen Systems Co.
4200 East Lake Street
Minneapolis, MN 55406-2203 USA

TELEPHONE NUMBERS: Product Information (8-5 CT)
Northwest Screen Systems
(612) 729-7365
(800) 221-4079

TRANSPORTATION EMERGENCIES (24 HR): Infotrac
(800) 535-5053

SECTION 2: COMPOSITION & INFORMATION ON INGREDIENTS

Name (CAS#)	Wt%	Exposure Limits	References
SODIUM METAPERIODATE (7790-28-5)	100	None under OSHA, ACGIH, or NIOSH	NA

SECTION 3: HAZARD IDENTIFICATION

EMERGENCY OVRVIEW

APPERANCE AND ODOR: White Powder with no odor

STATEMENT OF HAZARD: **DANGER!**

ACUTE HAZARDS

- May cause severe eye irritation
- May cause moderate to severe skin irritation
- May cause upper respiratory tract irritation
- May be harmful if swallowed

CHRONIC HAZARDS

- Dermatitis

NFPA RATING:

Health -2

Flammability -0

Reactivity -0 Special -NDA

HMIS RATING:

Health -2

Flammability -0

Reactivity -0

Protective Equipment - X

NFPA and HMIS ratings are assigned by Hazard Information Services based on criteria published by the National Fire Protection Association and the national Paint & Coatings Association respectively, and should only be interpreted by persons trained in these rating systems.

1996 North America Emergency Response Guidebook: NDA

ROUTES OF ENTRY

- Eye or skin contact, inhalation and ingestion

POTENTIAL HEALTH EFFECTS

The degree of injury will depend upon exposure dose and speed and thoroughness of first aid treatment

ACUTE EFFECTS

Local Effects (eyes, skin, nose, throat, stomach, etc...)

- May cause severe eye and skin irritation
- May cause upper respiratory tract irritation

Systematic Effects

- Abdominal pain, vomiting, diarrhea
- May be harmful if swallowed

SUB-CHRONIC EFFECTS

- NDA

NON-CARCINOGENIC EFFECTS

- Dermatitis

REPRODUCTIVE OF DEVELOPMENT EFFECTS

- None of the components of this product (Section 2) are listed on the State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) list of chemicals known to cause reproductive toxicity.

CANCER

- The components of this product (Section 2) are not listed as carcinogens or potential carcinogens by NTP, IARC, or OSHA [see 29 CFR § 1910.1200(g)(2)(vii)]
- None of the components of this product (Section 2) are listed on the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) list of chemicals known to cause cancer.

TARGET ORGANS

- All tissues (irritation)
- Respiratory system
- Eyes

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

- Eye, skin, and respiratory disorders

SECTION 4: FIRST AID

EYE CONTACT

- Immediately flush with plenty of water
- Remove contact lenses and continue flushing for at least 15 minutes
- Seek medical attention immediately

SKIN CONTACT

- Remove contaminated clothing
- Flush affected area with water for at least 15 minutes
- Wash affected area with mild soap and water
- Seek medical attention if symptoms develop and persist

INGESTION

- Immediately rinse mouth out with plenty of water
- If within 30 minutes after ingestion, give a small glass of water (NEVER give anything by mouth to an unconscious person)
- Do not induce vomiting
- Seek medical attention immediately

INHALATION

- Remove to fresh air
- Seek medical attention if breathing becomes difficult, cough develops or other symptoms develop

NOTES TO PHYSICIANS

- Contact *hazard Information Services* for assistance with the management of exposures to this product

SECTION 5: FIRE FIGHTING MEASURES

Flash point and Method: Not flammable

Flammable limits: NDA

Auto Ignition temperature: NDA

GENERAL HAZARD

- Keep away from sparks, heat, or open flame
- Inhalation, ingestion or contact with mists may cause severe injury
- Product is not flammable; however, due to its strong oxidizing capability, this product will readily ignite combustible materials.

EXTINGUISHING MEDIA

- Use extinguisher appropriate for surrounding fire

FIRE FIGHTING INSTRUCTIONS

- Wear appropriate protective clothing
- Use positive pressure self- contained breathing apparatus
- For large fire, flood fire area with water from a distance

HAZARDOUS COMBUSTION PRODUCTS

- Iodine vapors, mists, or fumes
- Iodine-containing and sodium- containing-compounds

SENSITIVITY OF EXPOSITION BY STATIC DISCHARGE

- NDA

SENSITIVITY OF EXPLOSION BY STATIC DISCHARGE

- NDA

SECTION 6: ACCIDENTAL RELEASE MEASURES

GENERAL

- Do not attempt to clean up chemical spills without appropriate personal protective equipment (see section 8)
- Extinguish or remove all ignition sources
- Ventilate spill area
- For small spills, take up with earth, sand, or other noncombustible absorbent material and place into sealable containers for later disposal
- For large spills, dike far ahead for later disposal
- Following product recovery, flush area with water
- Keep waste out of sewers, watersheds, and waterways
- See section 13 for information on the disposal of recovered material

REPORTABLE QUANTITIES (RQ)

- None

SECTION 7: HANDLING AND STORAGE

Strong Temperature: Ambient

Storage Pressure: Atmospheric

GENERAL

- Pure sodium metaperiodate is an oxidizing agent. In the dilute product, the oxidizing properties are lessened – Maintain the sodium metaperiodate in the dissolved form
- Use with adequate ventilation
- Store away from incompatible materials (see section 10)
- Minimize inhalation and avoid skin contact
- Store upright in a cool, dry well ventilated area out of direct sunlight
- Use with proper personal protective equipment (see section 8)
- Empty containers may retain hazardous properties, follow all MSDS/label warnings even after container is emptied
- Do not reuse empty container for food, clothing, or products for human or animal consumption
- Keep this and all chemicals out of reach of children

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS

- Ensure adequate ventilation

PERSONAL PROTECTION RESPIRATOR

- If significant level of mists are generated or is the ventilation is inadequate, the use of an approved air purifying respirator may be necessary
- Seek professional advice prior to respirator selection and use
- Follow OSHA respirator regulations (29 CFR §1910.134)
- If there is potential for an uncontrolled release, or exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection, use a positive pressure air supplied respirator

EYE PROTECTION

- Wear safety glasses with side shields (or goggles)

PROTECTIVE CLOTHING

- Prevent skin contact by wearing chemically resistant gloves, apron, impervious clothing, and boots if necessary

SAFETY EQUIPMENT

- Eyewash fountain
- Safety shower

GENERAL

- Use good personal and industrial hygiene practices

- Wash thoroughly after using product
- Keep product off of clothing and equipment
- Launder contaminated clothing before re-use
- Do not eat, drink, or smoke in any work area
- It is always good industrial hygiene practice to limit, to the extent feasible, skin and eye contact and inhalation of chemical products

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Powder or Crystal
Appearance:	White
Odor:	No odor
Vapor Pressure:	NDA
Vapor Density (air = 1):	NDA
Evaporation Rate (n-butyl acetate = 1):	NDA
Volatlie Organic Compounds:	Zero
Freezing Point:	NDA
Melting Point:	NDA
Boiling point:	Decomposes at 300C
Viscosity:	NDA
Specific Gravity:	NDA
Bulk Density:	NDA
Solubility:	Soluble
pH:	NDA

SECTION 10: STABILITY AND REACTIVITY

GENERAL

- This product will not polymerize. This product is stable.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID

- Heat
- Always test the compatibility of materials before mixing or storing together
- Mixtures of finely divided metals can react explosively.
- Mixtures with combustible materials are readily ignited (wood, paper, oil, etc.).

HAZARDOUS DECOMPOSITION PRODUCTS

- Iodine vapors, mists or fumes
- Iodine-containing compounds

SECTION 11: TOXICOLOGICAL INFORMATION

This section provides relevant information with regard to any toxicity studies performed on the product, or the “pure” form of the component(s). This information can be subject to interpretation. Therefore, it is essential that the following information be interpreted by individuals trained in its evaluation.

PRODUCT BASED

•Exposure can occur by inhalation of mists or vapors, ingestion, or eye or skin contact. Inhalation of mists or vapors may cause upper respiratory tract irritation with symptoms such as coughing, watery eyes, and nasal discharge. Inhalation of large amounts may cause edema of the larynx. Skin contact with this product is expected to cause moderate to severe irritation. Repeated or prolonged skin contact may cause dermatitis. Eye contact with this product can cause moderate to severe irritation. Ingestion of this product may result in nausea, vomiting, and diarrhea. Irritation to the mouth, throat, esophagus, gastrointestinal, tract and stomach may also occur. Ingestion may also cause adverse systematic effects. In animal studies, overdoses of iodates have caused adverse effects to the kidney and blood systems. There were no data located addressing the possible adverse reproductive, developmental or carcinogenic effects in either humans of experimental animals following exposure to the components of this product or the product itself .In the mouse, LD50 for intraperitoneal injection was reported to be 58 mg/kg.

SECTION 12: ECOLOGICAL INFORMATION

•NDA

SECTION 13: DISPOSAL INFORMATION

GENERAL

- Consult a local expert for advice on the disposal of this material
- Characteristics of recovered material may differ from those of original material
- Ensure that disposal is in compliance with local, state, and federal regulations

SECTION 14: TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Oxidizer, N.O.S. (Sodium Metaperiodate)
 HAZARD CLASS: Oxidizer 5.1
 UN NUMBER: UN1479
 LABEL: Oxidizer
 PACKING GROUP: II
 PACKING EXCEPTION: 173.153
 SARA 313: Not Listed

SECTION 15: REGULATORY INFORMATION

Chemical Inventories

- Sodium metaperiodate (CAS # 7790 – 28 – 5) is listed on the TSCA inventory list, the DSL, and the EINECS

Reportable Quantities (RQ)

- None

SARA TITLE III (Superfund Amendments and Reauthorization Act)

§ 302 Extremely Hazardous materials (40 CFR 355)

- Not listed

§ 304 Notification of Accidental Release (40 CFR 355)

- Not listed

§ 311/ 312 Hazard Categories

Immediate (Acute) Health Effects:	YES
Delayed (Chronic) Health Effects:	NO
Fire Hazard:	NO
Sudden Release of Pressure Hazard:	NO
Reactivity Hazard:	NO

§313 Toxic Chemical Release Reporting

- Not listed

STATE REGULATORY INFORMATION:

• Since each state has the authority to promulgate standard more stringent than the federal government, this section cannot provide an inclusive list of all state regulations which apply to this product. Questions related to state regulations should be directed toward local officials or NORTHWEST SCREEN SYSTEMS CO. at (612) 729-7365.

SECTION 16: OTHER INFORMATION

ABBREVIATIONS

ACGIH... American Conference of
Governmental Industrial
Hygienists
CAS#.... Chemical Abstracts Service
Number
DOT..... Department of Transportation
DSL..... Domestic Substance List
EINECS.. European Inventory of Existing
Chemical Substances
IARC International Agency for

LEL..... Lower Explosion Limit
MSDS..... Material Safety Data Sheet
NDSL... Non-Domestic Substance List
NIOSH ... National Institute for
Occupational Safety and Health
NTP National Toxicology Program
OSHA ... Occupational Safety and health
Administration
PEL Permissible Exposure Limit

Research on Cancer
IATA International Air Transport Association
IDLH Immediately Dangerous to Life And Health
IMO International Maritime Organization

RTECS ... Registry of Toxic Effects of Chemical Substances
STEL Short Term Exposure Limit
TERIS Teratogen Information System
TSCA Toxic Substances Control Act
TWA Time-Weighted Average
UEL Upper Explosion Limit

REVISION SUMMARY

ISSUE DATE: 12 - 18 - 98

SUPERSEDES: NONE

REASON(S) FOR ISSUE: New MSDS

PREPARED BY: Lisa Herschberger, M.S. MPH
Occupational and Environmental toxicologist
Toxicology and Industrial Hygiene Group

While the information set forth herein is believed to be accurate as of the date hereof, neither the Company nor HAZARD INFORMATION SERVICES make any warranty or guarantee, expressed or implied, and disclaim all liability arising out of the use of this information. This information is furnished upon condition that the person receiving it shall make their own determination of the suitability of the material and information provided for their own particular purposes.