

MATERIAL SAFETY DATA SHEET

SODIUM PERIODATE META

Effective Date: 03/02/2010

1. Product Identification

Synonyms: sodium metaperiodate; periodic acid, sodium salt

CAS No.: 7790-28-5

Molecular Weight: 213.89

Chemical Formula: NaIO₄

PRODUCT Name: CRE 300 L EZE –SCR Reclaimer

COMPANY IDENTIFICATION: W.M. Plastics, Inc

4237 Raleigh Street, Charlotte North Carolina

INFORMATION TELEPHONE (704) 599-0511

EMERGENCY TELEPHONE: 800-424-9300 (CHEMTREC)

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Sodium Periodate meta	7790-28-5	90 – 100	Yes

3. Hazards Identification

Emergency Overview

DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. MAY BE HARMFUL IF SWALLOWED. AFFECTS CENTRAL NERVOUS SYSTEM, LIVER AND KIDNEYS. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

Potential Health Effects

Inhalation: May irritate the respiratory tract, with symptoms of coughing and possible shortness of breath.

Ingestion: May cause gastrointestinal upset with symptoms of abdominal pain, vomiting, and diarrhea. Animal experiments suggest a potential for kidney and

blood cell damage, similar to that of the bromates and chlorates.

Skin Contact: Possible irritation or reddening of moist skin on prolonged contact.

Eye Contact: May cause irritation, redness and pain.

Chronic Exposure: Repeated ingestions may cause kidney dysfunction or failure and blood conditions such as hemolysis. Central nervous system may be affected.

Aggravation of Pre-existing Conditions: Persons with impaired liver or kidney function may be more susceptible to the effects of this substance.

4. First Aid Measures

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact: Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

5. Fire Fighting Measures

Fire: Not combustible but enhances the combustion of other substances. Strong oxidizing agent, can release gaseous oxygen when heated.

Explosion: May explode when exposed to mechanical shock or friction or can cause explosions with combustible materials. Sensitive to mechanical impact.

Fire Extinguishing Media: Use water spray to blanket fire, cool fire exposed containers, and to flush non-ignited spills or vapors away from fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode. Water spray may be used to keep fire exposed containers cool.

6. Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container. Dike and cover spill with ferrous sulfate, sodium sulfite or sodium thiosulfate, then

moisten and acidify, if necessary, to promote the reduction reaction. Neutralize slurry with soda ash.

7. Handling and Storage

Keep in a 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.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Colorless crystals.

Odor: Odorless.

Solubility: 14.4 g/100 g water @ 25° C (77° F)

Density: 3.8 g/cm³

pH: No information found.

Boiling Point: Not applicable.

Melting Point: 300C (572F) Decomposes.

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage. Strong oxidizing characteristics appear when mixed with acid solutions.

Hazardous Decomposition Products: Oxides of the contained metal and

halogen, possibly also free, or ionic halogen.

Hazardous Polymerization: Will not occur.

Incompatibilities: Substance may react violently with some organic compounds or reducing agents, finely-divided aluminum or magnesium metal, hydrides, strong reducing agents, ammonium perchlorate.

Conditions to Avoid: Heat, flame, ignition sources, shock, friction, incompatibles.

11. Toxicological Information

Carcinogenicity: **sodium** meta-periodate - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. Disposal Considerations

Not listed as a material banned from land disposal according to RCRA.

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: OXIDIZING SOLID, N.O.S. (**SODIUM** META-PERIODATE)

Hazard Class: 5.1

UN/NA: UN1479

Packing Group: II

Proper Shipping Name: OXIDIZING SOLID, N.O.S.

Dangerous Goods Code: 5.1(27B)

UN Number: 1479

(Canadian TDG)

Proper Shipping Name: OXIDIZING SUBSTANCES NOS (SODIUM PERIODATE)

Hazard Class: 5.1(9.2)

UN Number: 1479

15. Regulatory Information

Chemical Inventory Status - Part 1

Ingredient	TSCA	EC	Japan	Australia
Sodium Periodate meta	Yes	Yes	No	Yes

Federal, State & International Regulations

SARA 302 / SARA 313

Ingredient	RQ	TPQ	List	Chemical Catg.
Sodium Periodate meta	No	No	No	No

Federal, State & International Regulations

RCRA / TSCA

Ingredient	CERCLA	261.33	8(d)
Sodium Periodate meta	No	No	No

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

Not listed as Hazardous Substances under the CWA.

Not listed as Priority Pollutant under the CWA.

Not listed as Toxic Pollutants under the CWA.

OSHA: Not considered highly hazardous by OSHA.

Not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: Not listed.

SARA 311/312: **Acute:** Yes **Chronic:** Yes **Fire:** No **Pressure:** No

Reactivity: Yes (Pure / Solid)

European Labeling in Accordance with EC Directives

Hazard Symbols: XN O

Risk Phrases:

R 20/22 Harmful by inhalation and if swallowed.

R 22 Harmful if swallowed.

R 8 Contact with combustible material may cause fire.

R 9 Explosive when mixed with combustible material.

Safety Phrases:

S 13 Keep away from food, drink and animal feeding stuffs.

S 16 Keep away from sources of ignition – No smoking.

S 17 Keep away from combustible material.

S 2 Keep out of reach of children.

S 27 Take off immediately all contaminated clothing.

S 46 If swallowed, seek medical advice immediately and show
this container or label.

WHMIS: This **MSDS** has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the **MSDS** contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 3 Other: Oxidizer

Disclaimer:

W.M. Plastics, Inc provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. W.M. PLASTICS, INC MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, WM PLASTICS INC WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.