

MATERIAL SAFETY DATA SHEET
Sodium periodate

Section 1 - Chemical Product and Company Identification

MSDS Name:	Sodium periodate
Catalog Numbers:	19838-0000, 19838-0050, 19838-1000, 19838-5000, 41961-0000, 41961-0050, 41961-5000
Synonyms:	
Company Identification:	Acros Organics BVBA Janssen Pharmaceuticaaan 3a 2440 Geel, Belgium
Company Identification: (USA)	Acros Organics One Reagent Lane Fair Lawn, NJ 07410
For information in the US, call:	800-ACROS-01
For information in Europe, call:	+32 14 57 52 11
Emergency Number, Europe:	+32 14 57 52 99
Emergency Number US:	201-796-7100
CHEMTREC Phone Number, US:	800-424-9300
CHEMTREC Phone Number, Europe:	703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
7790-28-5	Sodium periodate	99%	232-197-6

Hazard Symbols: XN O



Risk Phrases: 20/21/22 36/37/38 8

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. Contact with combustible material may cause fire.

Potential Health Effects

- Eye:** Causes eye irritation.
- Skin:** Causes skin irritation. Harmful if absorbed through the skin.
- Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract. May cause kidney damage. May cause nausea and vomiting.
- Inhalation:** Harmful if inhaled. Causes respiratory tract irritation. May cause kidney damage.
- Chronic:** Chronic ingestion may cause liver damage.

Section 4 - First Aid Measures

Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:	Get medical aid. If conscious drink water, then induce vomiting. If unconscious, immediately take victim to a physician and do NOT attempt to induce vomiting. Wash mouth out with water.
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician:	Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with other material may cause fire.
Extinguishing Media:	Use water spray to cool fire-exposed containers. Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures

General Information:	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Avoid generating dusty conditions. Carefully scoop up and place into appropriate disposal container. Provide ventilation.

Section 7 - Handling and Storage

Handling:	Avoid contact with skin and eyes. Avoid ingestion and inhalation.
Storage:	Do not store near combustible materials. Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 7790-28-5:

Personal Protective Equipment

Eyes:	Wear chemical splash goggles.
Skin:	Wear appropriate protective gloves to prevent skin exposure.
Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Respirators:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Crystals

Color: white to almost white

Odor: odorless

pH: 3.4-4.5 (5% aq.sol. 20°C)

Vapor Pressure: Not available

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: 300 deg C(decom)

Autoignition Temperature: Not available

Flash Point: Not available

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

Decomposition Temperature:

Solubility in water: 80 g/l (20°C)

Specific Gravity/Density:

Molecular Formula: INaO4

Molecular Weight: 213.89

Section 10 - Stability and Reactivity

Chemical Stability:	Stable.
Conditions to Avoid:	Incompatible materials, combustible materials, organic materials.
Incompatibilities with Other Materials	Strong oxidizing agents, reducing agents, acids, finely powdered metals, magnesium, ammonium perchlorate.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, hydrogen iodide, sodium oxide, iodine.
Hazardous Polymerization	Will not occur.

Section 11 - Toxicological Information

RTECS#:	CAS# 7790-28-5: SD4550000
LD50/LC50:	RTECS: Not available. Other: Intraperitoneal, mouse LD50: 58 mg/kg
Carcinogenicity:	Sodium periodate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:	See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Other: Do not empty into drains.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	OXIDIZING SOLID, N.O.S.*	OXIDIZING SOLID, N.O.S.	OXIDIZING SOLID, N.O.S.
Hazard Class:	5.1	5.1	5.1
UN Number:	1479	1479	1479
Packing Group:	II	II	II

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN O

Risk Phrases:

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 8 Contact with combustible material may cause fire.

Safety Phrases:

S 17 Keep away from combustible material.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 7790-28-5: 1

Canada

CAS# 7790-28-5 is listed on Canada's DSL List

US Federal

TSCA

CAS# 7790-28-5 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 9/10/1996

Revision #2 Date 2/04/2005

Revisions were made in Sections: General revision.

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