

SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Version: 2019
Date Updated: July 15, 2019

SECTION 1. ----- PRODUCT AND COMPANY IDENTIFICATION-----

Product Name Potassium periodate
Product Code(s) PB7803
Recommended Use For Laboratory Research Use Only
Not for Human or Animal Drug Use

Supplier Bio Basic Inc.
Address 20 Konrad Crescent, Markham, Ontario,
Canada, L3R 8T4

Telephone (905) 474 4493
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For Chemical Emergency Phone# (416) 995 9730

SECTION 2. ----- HAZARDS IDENTIFICATION -----

GHS Classification

Oxidizing solids (Category 2)
Skin irritation (Category 2)
Eye irritation (Category 2A)
Specific target organ toxicity - single exposure (Category 3)

GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H271: May cause fire or explosion; strong oxidizer
H314: Causes severe skin burns and eye damage.
H372: Causes damage to organs (Thyroid) through prolonged or repeated exposure if swallowed
H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210: Keep away from heat
P220: Keep/Store away from clothing/combustible materials
P221: Take any precaution to avoid mixing with combustibles
P261: Avoid breathing dust/spray/ fume/gas/ mist/ vapors.
P264: wash skin thoroughly after handling
P270: Do not drink, eat, smoke, when using this product.
P271: Use only outdoors or in well-ventilated area.
P405: Store locked up.
P280: Wear protective gloves/eye & face protection
P302 + P352: If on skin gently wash with plenty of soap & water.
P304 + P340: If inhaled: remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338: If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present & easy to do so. Continue Rinsing .
P321: Specific treatment (see supplemental first aid instructions)
P370+P378: In case of fire: use dry sand, dry chemical or alcohol-resistant foam for extinction.

P332 + P313: If skin irritation occurs: consult physician P337 + P313: If eye irritation occurs: consult physician
 P362: Take off contaminated clothing and wash before reuse. P312: Call Poison Center or doctor/physician if you feel unwell
 P403 + P233: Store in a well ventilated place. Keep container tightly closed.
 P501: Dispose of contents/container to an approved waste disposal plant.

HMIS Classification

Health hazard: 3
Flammability: 0
Physical hazards: 0

Potential Health Effects

Inhalation Harmful by inhalation.
Skin Harmful in contact with skin.
Eyes Risk of serious damage to eyes.
Ingestion Harmful if swallowed.

SECTION 3. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

| Chemical Name | EC No. | CAS-No | Weight % |
|---------------------|-----------|-----------|----------|
| Potassium periodate | 232-196-0 | 7790-21-8 | <100 |

SECTION 4. ----- FIRST-AID MEASURES-----

Eyes: rinse immediately with plenty of water and seek medical advice.
Skin: Rinse with plenty of soap & water and seek medical advice.
Ingestion: Do not induce vomiting without medical advice. Rinse with water. Consult physician.
Inhalation: Move to fresh air. Consult a physician.
Physician: Treat symptomatically and supportively.

SECTION 5. ----- FIRE FIGHTING MEASURES -----

Info: wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved or equivalent, and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Special Hazards: Hydrogen iodide, Potassium oxides.
Extinguishing: Water spray, dry chemical, carbon dioxide or alcohol-resistant foam.

SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

Info: Use proper PPE as indicated in Section 8. Shut off all sources of ignition. Evacuate area.
Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Use non-sparking tools and equipment. Wash spill site after material pick-up is complete. Do not let product enter drains.

SECTION 7. ----- HANDLING AND STORAGE-----

Precautions for safe handling
 Wash thoroughly after handling. Use with adequate ventilation. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.
Conditions for safe storage
 Keep container tightly closed in a dry and well-ventilated place. Keep away from combustible materials, heat, sparks, and open flame. Store in a cool dry, well ventilated area away from incompatible substances. Hygroscopic.

SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION-----

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

| Chemical Name | ACGIH | NIOSH | OSHA – Final / Vacated PEL's |
|--------------------------|--------------|--------------|-------------------------------------|
| Potassium Periodate Meta | None listed | None listed | None listed |

PPE: Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166. Safety goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure. 0.11mm thick nitrile

Clothing: Wear appropriate protective clothing, including boots, lab coat, apron or coveralls, to prevent contact.

Respirators: Follow the OSHA respirator regulation found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

Appearance: White granular powder.

Odor: Odorless. **pH:** 4.5-5.5 at 2.3g/l at 25°C

Solubility: ca.2.3g/l 20° C (68°F)

Density: 3.62 g/cm³

Melting Point: 582°C (1080°F)

SECTION 10. ----- STABILITY AND REACTIVITY -----

Stability: Stable under ordinary conditions of use and storage. Strong oxidizing characteristics appear when mixed with acid solutions. **Avoid:** Heat, flames, ignition sources, strong reducing agents, powdered metals, amines.

Incompatibilities: Reducing agents, ammonium perchlorate, some reducing compounds, powdered metals.

Hazardous Decomposition Products: hydrogen iodide, potassium oxides - see section 5

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

RETCS: Not available. No LD50/LC50 information

SECTION 12. ----- ECOLOGICAL INFORMATION -----

Very toxic to aquatic life.

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Contact a licensed professional waste disposal service to dispose of this material.

RCRA P-Series: None listed. **RCRA U-Series:** None listed.

SECTION 14. ----- TRANSPORT INFORMATION -----

DOT: UN number: 1479, Oxidizing solid, n.o.s. (Potassium periodate), 5.1, II, ERG 140

IMDG: UN number: 1479, Oxidizing solid, n.o.s. (Potassium periodate), 5.1, II

IATA: UN number: 1479, Oxidizing solid, n.o.s. (Potassium periodate), 5.1, II

SECTION 15. ----- REGULATORY INFORMATION -----

SARA 311/312: Reactivity & Acute Health hazard

SARA Section 302 Extremely Hazardous Substances: None of the chemicals in this product have a TPQ/RQ.

Section 313: No chemicals are reportable under Section 313.

STATE CAS#7790-21-8 is not present on state lists from CA, MN, MA, FL.

PA Right to Know: Potassium periodate CAS#7790-21-8

NJ Right to Know: Potassium periodate CAS#7790-21-8

California Prop.65 components: None of the chemicals are known to cause cancer, birth defects, or any other reproductive harm.

EUROPEAN/INTERNATIONAL REGULATIONS European Labeling in Accordance with EC Directives

WGK (Water Danger/Protection)CAS#7790-21-8: 3

Canada – DSL/NDSLCAS#7790-21-8 is listed on Canada’s DSL List. CAS#7790-21-8 is not listed on Canada’s NDSL List.

Canada – 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.

CAS#7790-21-8 is not listed on Canada’s Ingredient Disclosure List.

SECTION 16. ----- OTHER INFORMATION-----

Further information: no limited for paper copy, just for internal uses.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Issuing Date: 15-Jul-2019

End of SDS