

# SAFETY DATA SHEET

#### 1. Identification

Product identifier POTASSIUM BIIODATE, PRIMARY STANDARD (ACS)

Other means of identification

**Product code** 75

Synonym(s) POTASSIUM HYDROGEN IODATE \* POTASSIUM HYDROGEN DI-IODATE \* POTASSIUM ACID

**IODATE** 

**Recommended use** professional, scientific and technical activities; other professional, scientific and technical activities

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

**Company name** GFS Chemicals, Inc. **Address** P.O. Box 245

Powell OH 43065 US

**Telephone** Phone 740-881-5501

Toll Free 800-858-9682 Fax 740-881-5989

Website www.gfschemicals.com
E-mail service@gfschemicals.com

**Emergency phone** Emergency Assistance Chemtrec 800-424-9300

number

## 2. Hazard(s) identification

Physical hazardsOxidizing solidsCategory 2Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2

Serious eye damage/eye irritation Category 2
Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

**OSHA hazard(s)** Not classified.

**Label elements** 



Signal word Danger

**Hazard statement** May intensify fire; oxidizer. Causes skin irritation. Causes serious eye irritation. May cause

respiratory irritation.

**Precautionary statement** 

**Prevention** Keep away from heat. Use only outdoors or in a well-ventilated area. Keep/Store away from

clothing and other combustible materials. Take any precaution to avoid mixing with combustibles.

Wash thoroughly after handling. Wear protective gloves/eye protection/face protection.

**Response** IF ON SKIN: Wash with plenty of soap and water. If inhaled: Remove person to fresh air and keep

comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or

doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye

irritation persists: Get medical advice/attention. In case of fire: Use water for extinction.

**Storage** Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with

applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise

classified (HNOC)

Not classified.

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# 3. Composition/information on ingredients

#### **Substances**

Chemical name	Common name and synonyms	<b>CAS number</b>	%
POTASSIUM BIIODATE	POTASSIUM HYDROGEN IODATE POTASSIUM HYDROGEN DI-IODATE	13455-24-8	100
	POTASSIUM ACID IODATE		

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

**Inhalation** Move to fresh air. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact Remove contaminated clothing. Wash off with soap and plenty of water. If skin irritation occurs:

Get medical advice/attention.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Irritation of eyes and mucous membranes. Irritant effects.

Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Most important

symptoms/effects, acute and

delayed

**Indication of immediate** medical attention and special

treatment needed **General information**  Provide general supportive measures and treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Wash

contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

None known.

Water.

Specific hazards arising from

the chemical

May intensify fire; oxidizer.

**Special protective equipment** 

and precautions for

firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with

face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting

equipment/instructions

Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if

possible. If not, withdraw and let fire burn out.

**Specific methods** Cool containers exposed to flames with water until well after the fire is out.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop leak if you can do so without risk. Sweep up or vacuum up spillage and collect in suitable container for disposal. This material and its container must be disposed of as hazardous waste. Avoid the generation of dusts during clean-up. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas. Clean up in accordance with all applicable regulations. Small Dry Spills: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. For waste disposal, see section 13 of the MSDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

**Precautions for safe handling** 

Take any precaution to avoid mixing with combustibles. Keep away from heat. Avoid contact with skin. Avoid contact with eyes. Wash hands thoroughly after handling.

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Conditions for safe storage,

including any incompatibilities

Keep away from heat. Keep container tightly closed. Do not store near combustible materials. Keep out of the reach of children. Store in a cool, dry place out of direct sunlight.

## 8. Exposure controls/personal protection

**Occupational exposure limits** No exposure limits noted for ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering** 

controls

Provide eyewash station.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear eye/face protection.

Skin protection

**Hand protection** Wear protective gloves.

Wear suitable protective clothing. Wear protective gloves.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Not available.

**General hygiene** considerations

Avoid contact with eyes. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Keep away from food and drink. Handle in accordance with good industrial

hygiene and safety practice.

## 9. Physical and chemical properties

**Appearance** Crystalline. **Physical state** Solid. **Form** Solid.

Color White. Odor Odorless. **Odor threshold** Not available. Not available. pН

Melting point/freezing point Initial boiling point and

boiling range

Not available. Not available.

Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not applicable.

# Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit -

upper (%)

Not available.

**Explosive limit - lower** 

(%)

Not available.

**Explosive limit - upper** 

(%)

Not available.

Not available. Vapor pressure Not available. Vapor density Relative density Not available.

Solubility(ies) 13 g/l approximately

**Partition coefficient** 

(n-octanol/water)

Not available.

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Molecular formula KH(IO3)2 Molecular weight 389.94

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## 10. Stability and reactivity

**Reactivity** Not available.

**Chemical stability** Material is stable under normal conditions. **Possibility of hazardous** Hazardous polymerization does not occur.

reactions

**Conditions to avoid** Exposure to moisture. May decompose on long exposure to light. Excessive heat.

**Incompatible materials** This product may react with reducing agents.

**Hazardous decomposition** 

products

Hydrogen iodide or iodine.

#### 11. Toxicological information

### Information on likely routes of exposure

IngestionDue to lack of data the classification is not possible.InhalationMay cause irritation to the respiratory system.

**Skin contact** Not available.

**Eye contact** Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Irritant effects.

## Information on toxicological effects

**Acute toxicity**The toxicological properties of this material have not been fully investigated and its handling and

use may be hazardous.

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory sensitizationDue to lack of data the classification is not possible.Skin sensitizationDue to lack of data the classification is not possible.Germ cell mutagenicityDue to lack of data the classification is not possible.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Reproductive toxicity** Due to lack of data the classification is not possible.

Specific target organ toxicity

- single exposure

Respiratory tract irritation.

Specific target organ toxicity

- repeated exposure

Due to lack of data the classification is not possible.

**Aspiration hazard** Due to lack of data the classification is not possible.

## 12. Ecological information

**Ecotoxicity** No ecotoxicity data noted for the ingredient(s).

**Persistence and degradability** No data is available on the degradability of this product.

Bioaccumulative potentialNot available.Mobility in soilNot available.Other adverse effectsNot available.

## 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Not available.

Hazardous waste code

D001: Waste Flammable material with a flash point <140 F

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

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## 14. Transport information

#### **DOT**

**UN** number UN1479

**UN proper shipping name** Oxidizing solid, n.o.s. (POTASSIUM BIIODATE)

Transport hazard class(es) 5.1

Not available. Subsidary class(es)

**Packing group** 

Special precautions for Read safety instructions, SDS and emergency procedures before handling.

user

Labels required 5.1

**Special provisions** IB8, IP2, IP4, T3, TP33

**Packaging exceptions** 152 Packaging non bulk 212 **Packaging bulk** 240

**IATA** 

**UN** number UN1479

**UN** proper shipping name Oxidizing solid, n.o.s. (POTASSIUM BIIODATE)

Transport hazard class(es) 5.1 Subsidary class(es) ΤT **Packaging group Environmental hazards** Nο

Labels required Not available.

**ERG Code** 5L

Special precautions for Not available.

user

**IMDG** 

**UN** number UN1479

**UN proper shipping name** OXIDIZING SOLID, N.O.S. (POTASSIUM BIIODATE)

Transport hazard class(es) 5.1 Subsidary class(es) **Packaging group** ΙΙ **Environmental hazards** 

Marine pollutant No

Labels required Not available. **EmS** F-A, S-O Special precautions for Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

# DOT



### IATA; IMDG



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## 15. Regulatory information

**US federal regulations** CERCLA/SARA Hazardous Substances - Not applicable.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not on regulatory list.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

N

hazardous substance

No

SARA 311/312 Hazardous chemical

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act** 

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

**DEA Exempt Chemical Mixtures Code Number** 

Not regulated.

Food and Drug

Not regulated.

Administration (FDA)

**US state regulations**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material

is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**US. Massachusetts RTK - Substance List** 

Not regulated.

**US. New Jersey Worker and Community Right-to-Know Act** 

Not regulated

**US. Pennsylvania RTK - Hazardous Substances** 

Not regulated.

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

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Country(s) or region **Inventory name** On inventory (yes/no)\* Japan Inventory of Existing and New Chemical Substances (ENCS) Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes **Philippines** Philippine Inventory of Chemicals and Chemical Substances Yes (PICCS) United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

# 16. Other information, including date of preparation or last revision

**Issue date** March-20-2014

Version # 01

**Further information** Not available.

**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently

> available. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified

Yes

in the text.

**Revision Information** Product and Company Identification: Physical States

Hazards Identification: US Hazard Categories

Composition / Information on Ingredients: Disclosure Overrides

Physical & Chemical Properties: Multiple Properties

Transport Information: Proper Shipping Name/Packing Group

Regulatory Information: Risk Phrases - Class.

GHS: Classification

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<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)