

## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product name: Potassium Iodate Concentrate, 1.355 N  $\pm$  10 ppm  
Product number(s): 5528000

#### 1.2 Details of the supplier of the safety datasheet

Borges & Mahoney Co  
100 Lincoln Rd East  
Vallejo, CA 94591  
707-643-3300 ph  
707-643-3367 fx

#### 1.3 Emergency telephone number

For domestic USA - Chemtrec: +1 800-424-9300, contract # 643968

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29CFR1910 (OSHAHCS)  
Not Classified

#### 2.2 GHS Label elements, including precautionary statements

Pictogram(s)



Signal word **Warning**

#### Hazard statement(s)

H315 - Causes skin irritation  
H317- May cause allergic skin reaction  
H318- May cause eye irritation

#### Precautionary statements(s)

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1

Name	CAS number	%	GHS-US classification
Potassium Iodate	7758-05-6	5	Ox. Sol. 3, H272
Water	7732-18-5	balance	N/A

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## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

#### If inhaled

Assure fresh air breathing. Allow the victim to rest.

#### In case of skin contact

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse..

#### In case of eye contact

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

#### If swallowed

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention

### 4.2 Most important symptoms and effects, both acute and delayed

Not expected to present a significant hazard under anticipated conditions of normal use.

### 4.3 Indication of any immediate medical attention and special treatment needed

No additional information available

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## 5. FIREFIGHTING MEASURES

### 5.1 Suitable extinguishing media

Foam. Dry powder. Carbon dioxide. Water spray. Sand. Do not use a heavy water stream.

### 5.2 Special hazards arising from the substance or mixture

#### Hazards

No additional information available

### 5.3 Advice for firefighters

#### Advice

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water from entering environment.

#### Equipment

Do not enter fire area without proper protective equipment, including respiratory protection

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## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment : Safety glasses. Gloves.

Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3 Methods and materials for containment and cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4 Reference to other sections

See Heading 8. Exposure controls and personal protection.

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Wash contaminated clothing before reuse.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep only in the original container in a cool, well ventilated place away from : incompatible materials, Heat sources, Direct sunlight. Keep container closed when not in use.

Incompatible products : Strong acids. Strong reducing agents.

Incompatible materials : Sources of ignition. Direct sunlight.

### 7.3 Specific end user(s)

No additional information available

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameter

#### Components with workplace control parameters

Component	CAS-No.	Control parameters	Value
Potassium Iodide	7681-11-0	ACGIH TLV	N/A
		OSHA PEL	N/A

### 8.2 Exposure controls

#### Appropriate Engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

#### Personal protective equipment

##### Eye/face protection

Chemical goggles or safety glasses.

##### Skin and Hand protection

Wear protective gloves

##### Body protection

No additional information

##### Respiratory protection

Wear appropriate mask.

##### Other information

Avoid all unnecessary exposure.

Do not eat, drink or smoke during use.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Color	colorless
Upper/lower flammability or explosive limits	No data available
Odor	none
Odor threshold	No data available

Vapor pressure	No data available
Vapor density	No data available
pH	No data available
Relative density	1.1-1.2
Melting point	ca. 0 C
Freezing point	No data available
Initial Boiling point and boiling range	ca. 100 C
Flash point	No data available
Evaporation rate	< ether
Flammability (solid, gas)	No data available
Water solubility	very soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No additional information available

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Not established.

### 10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5 Incompatible materials

Strong oxidizers. Strong acids. Strong bases.

### 10.6 Hazardous decomposition products

Iodine vapour. Carbon dioxide. Carbon monoxide.

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified

Water (7732-18-5)

LD50 oral rat = 90000 mg/kg

Sodium Hydroxide (1310-73-2)

LD50 dermal rabbit 1350 mg/kg (Rabbit; Literature,Rabbit; Literature)

#### Skin corrosion/irritation

Not classified.

#### Serious eye damage/eye irritation

Not classified.

#### Respiratory or skin sensitization

Not classified.

#### Germ cell mutagenicity

Not classified.

#### Carcinogenicity

Not classified.

**Reproductive toxicity**

Not classified.

**Specific target organ toxicity – single exposure**

Not classified.

**Specific target organ toxicity – repeated exposure**

Not classified.

**Aspiration hazard**

Not classified.

**Symptoms**

Based on available data, the classification criteria are not met.

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**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

Potassium Iodide (7681-11-0)

LC50 fishes 1 3200 mg/l 120 h

EC50 Daphnia 1 2.7 mg/l 24 h

Sodium Hydroxide (1310-73-2)

LC50 fishes 1 45.4 mg/l (96 h; *Salmo gairdneri* (*Oncorhynchus mykiss*); SOLUTION  $\geq 50\%$ )

EC50 Daphnia 1 40.4 mg/l (48 h; *Ceriodaphnia* sp.; NOMINAL CONCENTRATION)

LC50 fish 2 189 mg/l (48 h; *Leuciscus idus*)

TLM fish 1 99 mg/l (48 h; *Lepomis macrochirus*)

TLM fish 2 125 ppm (96 h; *Gambusia affinis*)

**12.2 Persistence and degradability**

Not established Potassium Iodate-Iodide, 0.1N (0.0167M)

Persistence and degradability Not established.

Potassium Iodate (7758-05-6)

Persistence and degradability Biodegradability: not applicable. Biodegradability in soil: not applicable.

Biochemical oxygen demand (BOD) Not applicable

Chemical oxygen demand (COD) Not applicable

ThOD Not applicable

BOD (% of ThOD) Not applicable

Potassium Iodide (7681-11-0)

Persistence and degradability Not established.

Sodium Hydroxide (1310-73-2)

Persistence and degradability Biodegradability: not applicable. No (test) data on mobility of the substance available.

Biochemical oxygen demand (BOD) Not applicable

Chemical oxygen demand (COD) Not applicable

ThOD Not applicable

BOD (% of ThOD) Not applicable

**12.3 Bioaccumulative potential**

Potassium Iodate-Iodide, 0.1N (0.0167M)

Bioaccumulative potential Not established.

Potassium Iodate (7758-05-6)

Log Pow -7.18 (Estimated value)

Bioaccumulative potential Bioaccumulation: not applicable.

Potassium Iodide (7681-11-0)

Bioaccumulative potential Not established.

Sodium Hydroxide (1310-73-2)  
Bioaccumulative potential Not established.

#### 12.4 Mobility in soil

No additional information available

#### 12.5 Results in PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

Avoid release to the environment.

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### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

##### Product

Dispose in a safe manner in accordance with local/national regulations.

##### Contaminated Container

Avoid release to the environment.

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### 14. TRANSPORT INFORMATION

#### In accordance with DOT

DOT Proper Shipping Name

Not regulated by DOT

Hazard Labels:

Non-regulated

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### 15. REGULATORY INFORMATION

#### TSCA Inventory List:

All of the ingredients (or their hydrate forms) are listed.

#### SARA Title III

##### Section 302 (RQ)

None of the chemicals in this material have an RQ.

#### SARA Title Codes:

CAS # 7758-05-6: flammable.

#### OSHA:

This product is not considered to be highly hazardous by OSHA Hazard Communication Standard.

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### 16. OTHER INFORMATION

#### HMIS Rating

HEALTH: 1

FIRE: 1

REACTIVITY: 1

SPECIFIC HAZARD: OXIDIZER

#### Further Information

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