SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name: **Potassium Iodide, Free Flowing, ACS**
Product number(s): **5531000, 5532000, 5533000, 5534000, 5535000**

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)
Eye Irrit. 2B H320

2.2 GHS Label elements, including precautionary statements

Pictogram(s)

Signal word **Danger**

Hazard statement(s)
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 May cause respiratory irritation.
H320 Causes 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 Iodide	7681-11-0	100	Eye Irrit. 2B, H320

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
Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

In case of skin contact
Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention.

In case of eye contact
In case of eye contact, rinse with plenty of water and seek medical attention.

If swallowed
Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed
Causes eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed
Obtain medical assistance.

5. FIREFIGHTING MEASURES

5.1 Suitable extinguishing media
Product is not flammable. Use appropriate media for adjacent fire. Cool containers with water.

5.2 Special hazards arising from the substance or mixture

Hazards
Emits toxic fumes (hydrogen iodide, potassium oxides) under fire conditions. (See also Stability and Reactivity section).

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 to enter environment.

Equipment
Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
See section 8 for recommendations on the use of personal protective equipment.

6.2 Environmental precautions
Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and place in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

6.4 Reference to other sections
See Heading 8. Exposure controls and personal protection.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities)

7.3 Specific end user(s)

No additional information available

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 TWA	0.01 ppm

8.2 Exposure controls

Appropriate Engineering controls

Contains no substances with occupational exposure limit values.

Personal protective equipment

Eye/face protection

Chemical goggles or safety glasses.

Skin and Hand protection

Wear nitrile or rubber gloves, apron or lab coat.

Body protection

Avoid all unnecessary exposure.

Respiratory protection

Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.

Other information

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Powder
Color	White Crystals
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	3.93 g/cm3 at 25°C (77°F)
Melting point	No data available
Freezing point	No data available

Initial Boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Water solubility	Soluble in cold water, hot water, potassium iodide, dilute sulfuric acid. Insoluble in alcohol, nitric acid.
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	560°C (1040°F)
Viscosity	No data available

9.2 Other Information
no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
Stable

10.2 Chemical stability
Stable

10.3 Possibility of hazardous reactions
Will not occur

10.4 Conditions to avoid
Not available

10.5 Incompatible materials
Strong reducing agents, organic materials, metals.

10.6 Hazardous decomposition products
Hydrogen iodide, potassium oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
Ingestion
LDLO Oral - mouse - 531 mg/kg
LDLO Oral - guinea pig - 400 mg/kg
Other
LD50 Intraperitoneal - mouse - 136 mg/kg

Skin corrosion/irritation
Not classified

Serious eye damage/eye irritation
Not classified

Respiratory or skin sensitization
Not classified

Germ cell mutagenicity
Not classified

Carcinogenicity
IARC No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or

potential carcinogen by OSHA.

Reproductive toxicity
Not classified

Specific target organ toxicity – single exposure
Inhalation - May cause respiratory irritation.

Specific target organ toxicity – repeated exposure
Not classified

Aspiration hazard
Not classified

Symptoms
Skin Irritation, redness, itchiness, rash.
Eyes Irritation, redness, watering eyes, itchiness.
Respiratory Irritation, coughing, wheezing.
Ingestion Irritation, nausea, vomiting, diarrhea.

Additional Information
Chronic Toxicity
May cause damage to the following organs: kidneys, liver, central nervous system (CNS). Teratogenicity
Exposure to excessive amounts of iodine during pregnancy is capable of producing fetal hypothyroidism.
Iodine containing drugs have been associated with fetal goiter

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Not available

12.2 Persistence and degradability
Not established.

12.3 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.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Dispose in a safe manner in accordance with local/national regulations.
Waste Residues: Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

Contaminated Container
Avoid release to the environment.
Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

14. TRANSPORT INFORMATION

In accordance with DOT

DOT Proper Shipping Name Not regulated by DOT

Hazard Labels:

15. REGULATORY INFORMATION

US Federal regulations
TSCA Inventory Status All ingredients are listed on the TSCA inventory.
DSCL (EEC) All ingredients are listed on the DSCL inventory.

International regulations
WHMIS Canada CLASS C: Oxidizing material.

National regulations
California Proposition 65 Not Listed
SARA 302 Not Listed
SARA 304 Not Listed
SARA 311 Potassium iodate
SARA 312 Potassium iodate
SARA 313 Not Listed

TSCAInventory List:
All of the ingredients (or their hydrate forms) are listed.
CERCLA Reportable Quantity (RQ):
None of the ingredients have an RQ..
SARA Section 302 Threshold Planning Quality (TPQ):
None of the ingredients have a TPQ.
SARA Title Codes:
CAS # 7681-11-0: acute, chronic.
OSHA:
This product is not considered to be highly hazardous by OSHA Hazard Communication Standard.

16. OTHER INFORMATION

HMIS Rating
HEALTH: 1
FIRE: 0
REACTIVITY: 0
SPECIFIC HAZARD: N/A

Further Information
 The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. No warranty, express or implied, is made and Shape Products assumes no liability resulting from the use of this SDS. The user must determine the suitability of this information for his/her application. Shape Products and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.