

# **SAFETY DATA SHEET**

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1 Product identifiers

Product name Potassium iodate

CAS number 7758-05-6

Synonyms Iodic acid, potassium salt

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals.

# 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

# 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Oxidizing Solids Category 2
Acute Oral Toxicity Category 4
Serious Eye Damage/Eye Irritation Category 2

# 2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Danger

Hazard statements May intensify fire; oxidizer.

Harmful if swallowed.

Causes serious eye irritation.

Precautionary statements

Prevention: Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep/Store away from clothing/ other combustible materials. Take any precaution to avoid mixing with combustibles. Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Fire: In case of fire, use CO2, dry chemical, or foam for extinction.

Disposal: Dispose of contents/container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

# **SECTION 3: Composition/information on ingredients**

# 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Potassium iodate	lodic acid, potassium salt	7758-05-6	<=100%

## **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

#### General advice

If inhaled Remove to fresh air. If not breathing, give artificial respiration. Get medical

attention if symptoms occur.

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In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. If skin

irritation persists, call a physician.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

If swallowed Clean mouth with water and drink afterwards plenty of water. Get medical

attention if symptoms occur.

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

May cause central nervous system depression. May cause adverse kidney effects.

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

If symptoms persist, call a physician. Treat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

**Suitable extinguishing media** Flooding quantities of water.

**Unsuitable extinguishing media**No information available.

# 5.2 Specific hazards arising from the substance or mixture

Oxidizer: Contact with combustible/organic material may cause fire. Containers may explode when heated. Risk of explosion by shock, friction, fire, or other sources of ignition. Runoff to sewer may create fire or explosion hazard. May ignite combustibles (wood, paper, oil, clothing, etc.).

Hazardous Combustion Products: Hydrogen iodide. Potassium oxides.

#### 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 5.4 Further information

Flash Point No information available.

**Autoignition Temperature** No information available.

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#### **Explosion limits**

Upper No data available.Lower No data available.

Sensitivity to Mechanical Impact No information available. Sensitivity to Static Discharge No information available.

**NFPA** 

Health	Flammability	Instability	Physical hazards
2	0	0	OX

#### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Keep combustibles (wood, paper, oil, etc) away from spilled material.

## 6.2 Environmental precautions

Should not be released into the environment.

# 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Soak up with inert absorbent material.

#### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

#### Precautions on safe handling

Wear personal protective equipment/face protection. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Avoid ingestion and inhalation. Keep away from clothing and other combustible materials.

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep in a dry, cool, and well-ventilated place. Keep container tightly closed. Do not store near combustible materials.

## Incompatibilities

Organic materials. Strong oxidizing agents. Sulfides. Peroxides. Metals. Reducing agents. Combustible material.

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# **SECTION 8: Exposure controls/personal protection**

# 8.1 Occupational exposure limits

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

## 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal protective equipment

#### **Eye/face protection**

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.

#### Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

# **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Respiratory protection

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.

Recommended Filter type: Particulates filter conforming to EN 143.

## Control of environmental exposure

No information available.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical State Solid powder
Appearance Off-white
Odor Odorless

Odor Threshold No information available pH No information available

Melting Point/Range 560 °C / 1040 °F

Boiling Point/Range No information available

Evaporation Rate Not applicable

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Flammability (solid) No information available

Flammability or explosive limit No data available

Upper

Lower

Vapor Pressure No information available

Vapor Density Not applicable

Density 3.93 Solubility Soluble

Partition coefficient; No data available

n-octanol/water

Autoignition Temp No information available Decomposition Temp No information available

Viscosity Not applicable

Molecular Formula I K O3
Molecular Weight 214 g/mol

VOC Content(%) No information available

Oxidizing properties Oxidizer

# 9.2 Other safety information

No information available.

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

Reactive hazard.

# 10.2 Chemical stability

Oxidizer: Contact with combustible/organic material may cause fire.

# 10.3 Possibility of hazardous reactions

None under normal processing.

#### 10.4 Conditions to avoid

Excess heat. Incompatible products. Combustible material.

#### 10.5 Incompatible materials

Organic materials, Strong oxidizing agents, Sulfides, Peroxides, Metals, Reducing agents, Combustible material.

# 10.6 Hazardous decomposition products

Hydrogen iodide, Potassium oxides.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

# **Product Information, Component Information**

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**Acute toxicity** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium iodate	-	> 2000 mg/kg (Rat)	-

#### Skin corrosion/irritation

Irritating to skin.

# Serious eye damage/eye irritation

Irritating to eyes.

# Respiratory or skin sensitization

No information available.

# Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Potassium iodate	7758-05-6	Not listed				

# Specific target organ toxicity - single exposure

None known.

# Specific target organ toxicity - repeated exposure

None known.

# Reproductive toxicity

No information available.

#### **Chronic effects**

May cause central nervous system depression. May cause adverse kidney effects.

#### 11.2 Additional Information

The toxicological properties have not been fully investigated.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Do not empty into drains.

# 12.2 Persistence and degradability

Persistence is unlikely.

# 12.3 Bio accumulative potential

No information available.

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# 12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

#### 12.5 Results of PBT and vPvB assessment

No information available.

# 12.6 Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

# 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# **SECTION 14: Transport information**

DOT (US)

UN-no UN1479

Proper Shipping Name OXIDIZING SOLID, N.O.S.

Hazard Class 5.1 Packing Group II

**IMDG** 

UN-no UN1479

Proper Shipping Name OXIDIZING SOLID, N.O.S.

Hazard Class 5.1 Packing Group II

**IATA** 

UN-no UN1479

Proper Shipping Name OXIDIZING SOLID, N.O.S.

Hazard Class 5.1 Packing Group II

# **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not applicable.

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

Not applicable.

#### SARA 304 Emergency release notification

Not regulated.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

# **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

# **SARA 302 Extremely hazardous substance**

Not listed.

#### SARA 311/312 Hazardous

See Section 2 for more information.

#### SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

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

Not regulated.

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

Not regulated.

# **Safe Drinking Water Act**

Not regulated.

# FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed.

# **US state regulations**

#### **US. Massachusetts RTK - Substance List**

Not listed.

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

Not listed.

#### **US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

# **California Proposition 65**

Not listed.

#### **SECTION 16: Other information**

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Issue date: 09/22/2009 Revision 1: 12/24/2021 Revision 2: 08/16/2024 Revision 3: 12/04/2024

# **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet 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.

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