

SAFETY DATA SHEET

Version 8.3 Revision Date 07/01/2021 Print Date 06/01/2022

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

1.1 Product identifiers

Product name : Potassium hydrogen diiodate for analysis

EMSURE®

Product Number : 1.04867 Catalogue No. : 104867 Brand : Millipore CAS-No. : 13455-24-8

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

Identified uses : Reagent for analysis

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

· ±1 31/1 771-5765

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

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), H272 Corrosive to Metals (Category 1), H290 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

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Hazard statement(s)			
Hazard statement(s) H272	May intensify fire: exidizer		
H290	May intensify fire; oxidizer. May be corrosive to metals.		
H314	Causes severe skin burns and eye damage.		
11314	Causes severe skin burns and eye damage.		
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.		
P234	Keep only in original container.		
P260 Do not breathe dusts or mists.			
P264 Wash skin thoroughly after handling.			
P280	Wear protective gloves/ protective clothing/ eye protection/ face		
	protection.		
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.		
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated		
	clothing. Rinse skin with water/ shower.		
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable		
	for breathing. Immediately call a POISON CENTER/ doctor.		
P305 + P351 + P338 +	IF IN EYES: Rinse cautiously with water for several minutes.		
P310	Remove contact lenses, if present and easy to do. Continue		
	rinsing. Immediately call a POISON CENTER/ doctor.		
P363	Wash contaminated clothing before reuse.		
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant		
	foam to extinguish.		
P390	Absorb spillage to prevent material damage.		
P405	Store locked up.		
P406	Store in corrosive resistant container with a resistant inner		
	liner.		
P501	Dispose of contents/ container to an approved waste disposal		
	plant.		

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula : KH(IO3)2
Molecular weight : 389.91 g/mol
CAS-No. : 13455-24-8
EC-No. : 236-650-9

Component	Classification	Concentration	
potassium hydrogen diiodate			
	Ox. Sol. 2; Met. Corr. 1;	<= 100 %	
	Skin Corr. 1B; Eye Dam.		
	1; H272, H290, H314,		
	H318		

For the full text of the H-Statements mentioned in this Section, see Section 16.



SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Hydrogen iodide

Potassium oxides

Not combustible.

Fire may cause evolution of:

hydrogen iodide

Has a fire-promoting effect due to release of oxygen.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Do not store near combustible materials.

Recommended storage temperature see product label.

Storage class (TRGS 510): 5.1B: Oxidizing hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

Body Protection

Acid-resistant protective clothing

Respiratory protection

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

a) Appearance Form: solid

Color: white

b) Odor odorless

c) Odor Threshold Not applicable

d) pH ca.1 - 2 at 50 g/l at 20 °C (68 °F)

e) Melting No data available

point/freezing point

f) Initial boiling point No data available

and boiling range

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 h) Evaporation rate No data available
 i) Flammability (solid, gas)

j) Upper/lower No flammability or explosive limits

No data available

k) Vapor pressure No data availablel) Vapor density No data availablem) Relative density No data available

n) Water solubility 13 g/l at 15 °C (59 °F)

o) Partition coefficient: log Pow: 0.504 - Bioaccumulation is not expected.

n-octanol/water

p) Autoignition No data available

temperature

q) Decomposition

temperature

No data available

r) Viscosity No data availables) Explosive properties No data available

t) Oxidizing properties The substance or mixture is classified as oxidizing with the

category 2.

9.2 Other safety information

Bulk density ca.1,750 kg/m3

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Risk of ignition or formation of inflammable gases or vapours with:

combustible substances

increased reactivity with:

oxidisable substances

Violent reactions possible with:

strong reducing agents

Powdered metals

10.4 Conditions to avoid

no information available

10.5 Incompatible materials

Metals

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10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral: No data available Inhalation: No data available Dermal: No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient 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 component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

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12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

DOT (US)

UN number: 3085 Class: 5.1 (8) Packing group: II

Proper shipping name: Oxidizing solid, corrosive, n.o.s. (potassium hydrogen diiodate)

Reportable Quantity (RQ): Poison Inhalation Hazard: No

IMDG

UN number: 3085 Class: 5.1 (8) Packing group: II EMS-No: F-A, S-Q Proper shipping name: OXIDIZING SOLID, CORROSIVE, N.O.S. (potassium hydrogen

diiodate)

IATA

UN number: 3085 Class: 5.1 (8) Packing group: II

Proper shipping name: Oxidizing solid, corrosive, n.o.s. (potassium hydrogen diiodate)

SECTION 15: Regulatory information

SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

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SECTION 16: Other information

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. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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