



# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 10/14/2014

Version 1.2

## SECTION 1. Identification

### Product identifier

|                |                                    |
|----------------|------------------------------------|
| Product number | 106525                             |
| Product name   | Sodium iodate for analysis EMSURE® |
| CAS-No.        | 7681-55-2                          |

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

|                 |                      |
|-----------------|----------------------|
| Identified uses | Reagent for analysis |
|-----------------|----------------------|

### Details of the supplier of the safety data sheet

|         |  |
|---------|--|
| Company | EMD Millipore Corporation   290 Concord Road, Billerica, MA 01821,<br>United States of America   General Inquiries: +1-978-715-4321  <br>Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5) |
|---------|--|

|                     |  |
|---------------------|--|
| Emergency telephone | 800-424-9300 CHEMTREC (USA)<br>+1-703-527-3887 CHEMTREC (International)<br>24 Hours/day; 7 Days/week |
|---------------------|--|

## SECTION 2. Hazards identification

### GHS Classification

Oxidizing solid, Category 2, H272

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

### GHS-Labeling

*Hazard pictograms*



*Signal Word*

Danger

*Hazard Statements*

H272 May intensify fire; oxidizer.

*Precautionary Statements*

P210 Keep away from heat.

P220 Keep/Store away from clothing/ combustible materials.

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P221 Take any precaution to avoid mixing with combustibles.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P501 Dispose of contents/ container to an approved waste disposal plant.

## Other hazards

None known.

## SECTION 3. Composition/information on ingredients

|            |                   |                          |
|------------|-------------------|--------------------------|
| Formula    | NaIO <sub>3</sub> | INaO <sub>3</sub> (Hill) |
| Molar mass | 197.89 g/mol      |                          |

### Hazardous ingredients

*Chemical Name ( Concentration)*

CAS-No.

*Sodium iodate ( <= 100 % )*

7681-55-2

Exact percentages are being withheld as a trade secret.

## SECTION 4. First aid measures

### Description of first-aid measures

#### *Inhalation*

After inhalation: fresh air.

#### *Skin contact*

After skin contact: wash off with plenty of water. Remove contaminated clothing.

#### *Eye contact*

After eye contact: rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.

#### *Ingestion*

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

Never give anything by mouth to an unconscious person.

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

irritant effects, respiratory arrest, Cyanosis, Stomach/intestinal disorders, collapse

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

No information available.

## SECTION 5. Fire-fighting measures

### 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.

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## Special hazards arising from the substance or mixture

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

Development of hazardous combustion gases or vapors possible in the event of fire.

Fire may cause evolution of:

hydrogen iodide

## Advice for firefighters

*Special protective equipment for fire-fighters*

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

*Further information*

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Suppress (knock down) gases/vapors/mists with a water spray jet.

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## SECTION 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid generation of dusts; do not inhale dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

### Environmental precautions

Do not empty into drains.

### 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.

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## SECTION 7. Handling and storage

### Precautions for safe handling

Observe label precautions.

### Conditions for safe storage, including any incompatibilities

Tightly closed. Dry. Protected from light. Away from combustible substances. Keep away from heat and sources of ignition.

Store at +5°C to +30°C (+41°F to +86°F).

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## SECTION 8. Exposure controls/personal protection

### Exposure limit(s)

Contains no substances with occupational exposure limit values.

### Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

### Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

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## *Hygiene measures*

Change contaminated clothing. Wash hands after working with substance.

## *Eye/face protection*

Safety glasses

## *Hand protection*

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

## *Respiratory protection*

required when dusts are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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

|                           |   |
|---------------------------|---|
| Physical state            | solid   |
| Color                     | white   |
| Odor                      | odorless  |
| Odor Threshold            | No information available.                       |
| pH                        | ca. 5.8<br>at 90 g/l<br>77 °F ( 25 °C)          |
| Melting point             | No information available.                       |
| Boiling point             | No information available.                       |
| Flash point               | No information available.                       |
| Evaporation rate          | No information available.                       |
| Flammability (solid, gas) | No information available.                       |
| Lower explosion limit     | No information available.                       |
| Upper explosion limit     | No information available.                       |
| Vapor pressure            | No information available.                       |
| Relative vapor density    | No information available.                       |
| Density                   | ca. 4.28 g/cm <sup>3</sup><br>at 68 °F ( 20 °C) |
| Relative density          | No information available.                       |

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|  |   |
|--|---|
| Water solubility                       | 81 g/l<br>at 68 °F ( 20 °C)   |
| Partition coefficient: n-octanol/water | log Pow: -7.18<br>(calculated)<br>(Lit.) Bioaccumulation is not expected. |
| Autoignition temperature               | No information available.   |
| Decomposition temperature              | No information available.   |
| Viscosity, dynamic                     | No information available.   |
| Explosive properties                   | No information available.   |
| Oxidizing properties                   | The substance or mixture is classified as oxidizing with the category 2.  |
| Bulk density                           | ca. 1,150 kg/m <sup>3</sup>   |

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### SECTION 10. Stability and reactivity

#### Reactivity

Oxidizing

#### Chemical stability

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

#### Possibility of hazardous reactions

combustible substances, Peroxides, Alkali metals, Aluminum, carbon/soot, sulfur, phosphorus, arsenic, Copper

Risk of explosion with:

#### Conditions to avoid

Strong heating (decomposition).

#### Incompatible materials

no information available

#### Hazardous decomposition products

in the event of fire: See section 5.

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### SECTION 11. Toxicological information

#### Information on toxicological effects

*Likely route of exposure*

Eye contact, Skin contact, Ingestion

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### *Acute oral toxicity*

Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

### *Specific target organ systemic toxicity - single exposure*

The substance or mixture is not classified as specific target organ toxicant, single exposure.

### *Specific target organ systemic toxicity - repeated exposure*

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### *Aspiration hazard*

Regarding the available data the classification criteria are not fulfilled.

## **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.

OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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.

ACGIH

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

## **Further information**

Quantitative data on the toxicity of this product are not available.

Further toxicological data:

After absorption of toxic quantities:

Stomach/intestinal disorders, Cyanosis, collapse, respiratory arrest

Further data:

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

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## **SECTION 12. Ecological information**

### **Ecotoxicity**

#### *Toxicity to fish*

LC50 *Oncorhynchus mykiss* (rainbow trout): 220 mg/l; 96 h (ECOTOX Database)

### **Persistence and degradability**

No information available.

### **Bioaccumulative potential**

*Partition coefficient: n-octanol/water*

log Pow: -7.18

(calculated)

(Lit.) Bioaccumulation is not expected.

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## Mobility in soil

No information available.

## *Additional ecological information*

Discharge into the environment must be avoided.

## SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

## SECTION 14. Transport information

### Land transport (DOT)

UN number

UN 1479

Proper shipping name

OXIDIZING SOLID, N.O.S. ( SODIUM IODATE)

Class

5.1

Packing group

II

Environmentally hazardous

--

### Air transport (IATA)

UN number

UN 1479

Proper shipping name

OXIDIZING SOLID, N.O.S. ( SODIUM IODATE)

Class

5.1

Packing group

II

Environmentally hazardous

--

Special precautions for user

no

### Sea transport (IMDG)

UN number

UN 1479

Proper shipping name

OXIDIZING SOLID, N.O.S. ( SODIUM IODATE)

Class

5.1

Packing group

II

Environmentally hazardous

--

Special precautions for user

yes

EmS

F-A S-Q

## SECTION 15. Regulatory information

### United States of America

#### SARA 313

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.

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## SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## DEA List I

Not listed

## DEA List II

Not listed

## US State Regulations

### Massachusetts Right To Know

Remarks

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

### Pennsylvania Right To Know

*Ingredients*

Sodium iodate

### New Jersey Right To Know

*Ingredients*

Sodium iodate

### California Prop 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

## Notification status

TSCA:

All components of the product are listed in the TSCA-inventory.

DSL:

All components of this product are on the Canadian DSL.

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## SECTION 16. Other information

### Training advice

Provide adequate information, instruction and training for operators.

### Labeling

*Hazard pictograms*



*Signal Word*

Danger

*Hazard Statements*

H272 May intensify fire; oxidizer.

*Precautionary Statements*



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## Prevention

P221 Take any precaution to avoid mixing with combustibles, heavy-metal compounds, acids and alkalis.

## Full text of H-Statements referred to under sections 2 and 3.

H272

May intensify fire; oxidizer.

## Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

Revision Date 10/14/2014

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The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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