# MATERIAL SAFETY DATA SHEET
according to the Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 08/02/2012 Version 1.1

## SECTION 1. Identification

### Product identifier

Product number 109917

Product name Potassium iodate solution for 1000 ml, c($KIO_3$) = 1/60 mol/l (0.1 N)
Titrisol®

### 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, United States of America | SDS Phone Support: +1-978-715-1335 | General Inquiries: +1-978-751-4321 | Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)

e-mail: mm_sds@merckgroup.com

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

## SECTION 2. Hazards identification

### GHS Classification

Serious eye damage, Category 1, H318

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

### GHS-Labeling

*Hazard pictograms*



*Signal Word*
Danger

*Hazard Statements*
H318 Causes serious eye damage.

*Precautionary Statements*

P280 Wear eye protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313 Get medical advice/ attention.

**OSHA Hazards**
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Other hazards**
None known.

## SECTION 3. Composition/information on ingredients

Chemical nature Aqueous solution

**Hazardous ingredients**
*Chemical Name ( Concentration)*
CAS-No.
*Potassium iodate ( >= 1 % - < 5 % )*
7758-05-6

## 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. Immediately call in ophthalmologist.

*Ingestion*
After swallowing: immediately make victim drink water (two glasses at most).

Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**
We have no description of any toxic symptoms.

**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.

### Special hazards arising from the substance or mixture

Ambient fire may liberate hazardous vapors.

### 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*

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

## SECTION 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### Environmental precautions

Do not let product enter 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 with liquid-absorbent material (e.g. Chemizorb® ). Dispose of properly. Clean up affected area.

## SECTION 7. Handling and storage

### Precautions for safe handling

Observe label precautions.

### Conditions for safe storage, including any incompatibilities

Tightly closed.

Storage temperature: no restrictions.

## 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.

*Hygiene measures*
Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

*Eye/face protection*
Tightly fitting safety goggles

*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.

Recommended:

full contact:

| | |
|---|---|
| Glove material: | Nitrile rubber |
| Glove thickness: | 0.11 mm |
| Break through time: | > 480 min |

splash contact:

| | |
|---|---|
| Glove material: | Nitrile rubber |
| Glove thickness: | 0.11 mm |
| Break through time: | > 480 min |

*Other protective equipment:*
protective clothing

*Respiratory protection*
required when vapors/aerosols 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 | liquid |
| Color | colorless |
| Odor | odorless |
| Odor Threshold | No information available. |
| pH | ca. 5.4<br>at 68 °F ( 20 °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. |
| Relative density | 1.03 g/cm³<br>at 68 °F ( 20 °C) |
| Water solubility | at 68 °F ( 20 °C)<br>soluble |
| Partition coefficient: n-octanol/water | No information available. |
| Autoignition temperature | No information available. |
| Decomposition temperature | No information available. |
| Viscosity, dynamic | No information available. |

## SECTION 10. Stability and reactivity

### Reactivity
See below

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

### Possibility of hazardous reactions
The generally known reaction partners of water.

### Conditions to avoid
no information available

### Incompatible materials
no information available

### Hazardous decomposition products
in the event of fire: See section 5.

## SECTION 11. Toxicological information

### Information on toxicological effects

*Likely route of exposure*
Eye contact, Skin contact

*Eye irritation*
Causes serious eye damage.

*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:
Hazardous properties cannot be excluded, but are relatively improbable due to the low concentration of the dissolved substance(s).
Further data:
Handle in accordance with good industrial hygiene and safety practice.

## SECTION 12. Ecological information

**Ecotoxicity**
No information available.

**Persistence and degradability**
No information available.

**Bioaccumulative potential**
No information available.

**Mobility in soil**
No information available.

**Other adverse effects**
*Additional ecological information*
No ecological problems are to be expected when the product is handled and used with due care and attention.
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)

Not classified as dangerous in the meaning of transport regulations.

### Air transport (IATA)

Not classified as dangerous in the meaning of transport regulations.

### Sea transport (IMDG)

Not classified as dangerous in the meaning of transport regulations.

## SECTION 15. Regulatory information

### United States of America

#### OSHA Hazards

Corrosive to eyes

This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS, and may deviate from the GHS information on the label and in section 2.

#### SARA 311/312 Hazards

Acute Health Hazard

### US State Regulations

#### Massachusetts Right To Know

Remarks

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

#### Pennsylvania Right To Know

*Ingredients*

water

Potassium iodate

#### New Jersey Right To Know

*Ingredients*

water

Potassium 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: | On TSCA Inventory |
| DSL: | All components of this product are on the Canadian DSL list. |

## SECTION 16. Other information

**Training advice**
Provide adequate information, instruction and training for operators.

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

| | |
|---|---|
| H318 | Causes serious eye damage. |

**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.

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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