

Sulfur Dioxide – Titrant

Health & Safety data sheet

According to EC Directive 91/155/EC and following amendments

Date of issue: 12 September 2007

SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product name:

- Mi 555-002 Sulphur dioxide, Titrant

Application:

- Reagent for wine analysis

Manufacturer identification:

Milwaukee s.r.l.
c.so Leonardo da Vinci 48/50
21013 Gallarate (VA), Italy
tel.: +39 0331 268009

Emergency Telephone n. °:

+39-02-66101029
CENTRO ANTIVELENI
OSPEDALE NIGUARDA (MI) - ITALY

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients:

NAME (EC directives)	EC-Index-No.	CAS No.	LABELLING (EC directives)	CONTENT
Potassium iodate	NA	7758-05-6	Xi R 8, 41	≥ 1.0% - < 5%

(full text of R phrases in section 16).

SECTION 3 - HAZARD IDENTIFICATION

The concentration of the hazardous ingredient is below the limits of classification: a classification according to categories of danger as specified in directive 67/548/EC is not required.

Risk cannot be excluded if the product is handled improperly.

SECTION 4 - FIRST AID MEASURES

Remove contaminated, soaked clothing immediately and dispose of safely.

- **After inhalation** : fresh air.
- **After skin contact** : wash off with plenty of water. Remove contaminated clothing.
- **After eye contact** : rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist.
- **After swallowing** : immediately make victim drink plenty of water. Induce vomiting. Call in physician.

SECTION 5 – FIRE-FIGHTING MEASURES

• **Suitable extinguishing media**

- In adaptation to materials stored in the immediate neighborhood.

• **Special risks:**

- Fire-promoting. Keep away from combustible materials. Development of hazardous combustion gases or vapors possible in the event of fire. The following may develop in event of fire: iodine.

• **Special protective equipment for fire fighting:**

- Do not stay in dangerous zone without self-contained breathing apparatus.

• **Additional information:**

- Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or groundwater.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

- **Personal precautions:**
 - Avoid substance contact. Do not inhale vapors/aerosols. Ensure supply of fresh air in enclosed rooms.
- **Environmental precautions:**
 - Do not allow to enter sewerage system; risk of explosion!
- **Additional notes:**
 - Take up with liquid-absorbent material.
 - Clean up affected area and dispose according to local regulation.

SECTION 7 - HANDLING AND STORAGE

- **Handling:**
 - No further requirements.
- **Storage:**
 - Tightly closed in a well ventilated place. Keep away from sources of ignition and heat.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

- **Personal protective equipment:**
 - Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.
- **Respiratory protection:**
 - Required when vapors/aerosols are generated. Work under hood.
- **Protective gloves:**
 - Rubber or plastic
- **Eye protection:**
 - Goggles or face mask
- **Industrial hygiene:**
 - Change contaminated clothing. Apply skin- protective barrier cream.
 - Wash hands after working with substance.

SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

- | | | | |
|------------------------------|---------------------|-------------------------------|--------------------------|
| • Appearance | : colorless liquid, | • density at 20°C | : 1.01 g/cm ³ |
| • Odor | : odorless | • flash point | : NA |
| • Solubility in water | : soluble | • explosive properties | : NA |
| • Melting point | : ND | • explosion limits | : NA |
| • Boiling point | : ND | • ignition temperature | : NA |
| • pH value at 20°C | : ~ 12 | | |

SECTION 10 - STABILITY AND REACTIVITY

- **Conditions to be avoided:**
 - No information available
- **Substances to be avoided:**
 - oxidizable substances, combustible substances, aluminum (in powder form), metals (in powder form), sulfides, phosphorus, sulfur, organic substances
- **Hazardous decomposition products:**
 - in the event of fire: see sect. 5.

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SECTION 11 - TOXICOLOGICAL INFORMATION

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

APPLICABLE TO MAIN COMPONENT(S):

- The following applies to Potassium Iodate, as the pure substance:

Acute toxicity

Specific symptoms in animal studies:

Eye irritation test (rabbit): severe Irritations (OECD 405)

Skin irritation test (rabbit): No irritations (OECD 404).

Subacute to chronic toxicity

Mutagenicity (mammal cell test): micronucleus negative.

Bacterial mutagenicity: Ames test: negative.

- **In case of eye contact** : Severe irritations. Risk of severe damage to eyes.
- **In case of ingestion** : after absorption of toxic quantities: gastrointestinal complaints, cyanosis, collapse, respiratory arrest.
- **In case of inhalation** : Irritations of the mucous membranes on the mouth, pharynx, oesophagus and gastrointestinal tract.
- **Further data** : Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.

SECTION 12 - ECOLOGICAL INFORMATION

APPLICABLE TO MAIN COMPONENT(S):

- The following applies to Potassium Iodate, as the pure substance:

Biologic degradation:

Methods for the determination of biodegradability are not applicable to inorganic substances.

Ecotoxic effects:

Quantitative data on the ecological effect of this product are not available.

Further ecologic data:

No ecological problems are to be expected when the product is handled and used with due care and attention.

SECTION 13 - DISPOSAL CONSIDERATIONS

• **Waste disposal:**

- Chemical residues are generally classified as special waste and thus covered by local regulations. Contact local authorities or disposal companies for advice.
- Handle contaminated packaging in the same way as the substance itself.

SECTION 14 - TRANSPORT INFORMATION

For Mi 555-002:

Not subject to transport regulations.

SECTION 15 - REGULATORY INFORMATION

Labeling according to EC Directives:

Symbol: -
R-phrases: -
S-phrases: -
Contents: -

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SECTION 16 - OTHER INFORMATION

- **Text of any R phrases referred to under heading 2:**
 - 8 : Contact with combustible material may cause fire.
 - 41 : Risk of serious damage to eyes.
- **Supersedes edition of** : / (1st edition)
- **Legend** : NA Not applicable
ND Not determined

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT.