

Titrateable Total Acidity – Titrant

Health & Safety data sheet

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

Revision Date: 2016–06-01

Reason for Revision: Reviewed Only

SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product name:

- Mi 556-002 Titrateable total acidity, titrant

Application:

- Reagent for wine analysis

Manufacturer identification:

Milwaukee Instruments.
2950 Business Park Drive
Rocky Mount, NC 27804

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients:

NAME (EC directives)	EC-Index-No.	CAS No.	LABELLING (EC directives)	CONTENT
Sodium Hydroxide	011-002-00-6	1310-73-2	C R 35	≥ 0.5% - < 2%

(Full text of R-Phrases in section 16).

SECTION 3 - HAZARD IDENTIFICATION

Irritating to eyes and skin.

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 immediately with plenty of water and seek medical advice.
- **After swallowing** : immediately drink plenty of water (if necessary several liters). Seek medical advice.

SECTION 5 – FIRE-FIGHTING MEASURES

- **Suitable extinguishing media**
 - In adaptation to materials stored in the neighborhood.
- **Special risks:**
 - Ambient fire may liberate hazardous vapors.
- **Special protective equipment for fire fighting:**
 - Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.
- **Additional information:**
 - Non combustible.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- **Personal precautions:**
 - Do not inhale vapors. Avoid substance contact. Ensure supply of fresh air in enclosed rooms.
- **Environmental precautions:**
 - Take up with liquid-absorbent material.
- **Additional notes:**
 - Clean up affected area and dispose according to local regulation.
 - Render harmless: neutralize with diluted sulfuric acid.

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SECTION 7 - HANDLING AND STORAGE

- **Handling:**
 - Cannot be stored indefinitely.
- **Storage:**
 - Tightly closed. Store at room temperature (+15 to +25 °C recommended). Protect from light.
 - Accessible only for authorized persons.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

- **Personal protective equipment:**
 - As appropriate to quantity handled.
- **Protective gloves:**
 - Rubber or plastic
- **Respiratory protection:**
 - Required when vapors/aerosols are generated. Work under hood.
- **Eye protection:**
 - Goggles or face mask

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:**
 - Strong heating.
- **Hazardous decomposition products:**
 - In the event of fire: see section 5.
- **Substances to be avoided:**
 - Ammonium compounds (formed could be: ammonia), acids
 - The generally known reaction partners of water.
- **Further information:**
 - Stable

SECTION 11 - TOXICOLOGICAL INFORMATION

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

- **In case of inhalation** : mucosal irritations, coughing, dyspnoea.
- **In case of skin contact** : irritant effects.
- **In case of eye contact** : irritant effects.
- **In case of ingestion** : irritations of mucous membranes in the mouth, pharynx, esophagus, gastrointestinal tract.
- **Further data** : the product should be handled with the care usual when dealing with chemicals.

SECTION 12 - ECOLOGICAL INFORMATION

- **Ecotoxic effect:**

Biological effects: toxic effects on fish and plankton. Harmful effect due to pH shift. Does not cause biological oxygen deficit. Neutralization possible in waste water treatment plants.
Fish toxicity: fish LC₅₀: 189 mg/L (1N solution = 40 g/L).
- **Further ecological 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.

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SECTION 14 - TRANSPORT INFORMATION

For Mi 556-002:

- **Land transport**
ADR/RID : 8, PGII
UN-N : 1824
Name : SODIUM HYDROXIDE SOLUTION
- **Sea transport**
IMDG : 8/UN 1824/PGII
Name : SODIUM HYDROXIDE SOLUTION
- **Air transport**
ICAO/IATA : 8/UN 1824/PGII
Name : SODIUM HYDROXIDE SOLUTION

SECTION 15 - REGULATORY INFORMATION

Labeling according to EC Directives:

Symbol:	Xi	Irritant
R-phrases :	36/38	Irritating to eyes and skin.
S-phrases :	26-37/39-45	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

Contains : Sodium Hydroxide

SECTION 16 - OTHER INFORMATION

- **Text of any R phrases referred to under heading 2:**
35 : Causes severe burns.
- **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.