

# Tartaric Acid Test – Reagent B

Health & Safety data sheet

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

Date of issue: 12 September 2007

## <u>SECTION 1</u> - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

**Product name:** Application:

 Mi 554B-020 Reagent B · Tartaric Acid test 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** 

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## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients:

NAME (EC directives)	EC-Index-No.	CAS No.	LABELLING (EC directives)	CONTENT
Ammonium Vanadate	NA	7803-55-6	T R 20-25-36/37	≥ 0.1% - < 5%
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 respiratory system.

## **SECTION 4 - FIRST AID MEASURES**

Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation : fresh air.After skin contact : wash off : wash off with plenty of water. Remove contaminated clothing. After eye contact
 After swallowing
 : rinse out immediately with plenty of water and seek medical advice.
 : 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.

# **Milwaukee**

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## **SECTION 7 - HANDLING AND STORAGE**

Handling:

Storage:

Cannot be stored indefinitely.

- 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:

Respiratory protection:

 As appropriate to quantity handled.
 Required when vapors/aerosols are generated. Work under hood.

• Eye protection:

Protective gloves:
 Rubber or plastic

- Goggles or face mask

## **SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES**

Appearance and odor : Colorless liquid; odorless.

Density at 20°C : 1.00 g/cm³
 Ignition temperature : ND

Solubility in water : Soluble
 Melting point : ND
 Boiling point : NA

• Flash point : NA
• Explosion limits : NA

• pH value at 20°C :> 10

## **SECTION 10 - STABILITY AND REACTIVITY**

Conditions to be avoided:

· Substances to be avoided:

- Strong heating.

- Ammonium compounds (formed could be: ammonia), acids
- The generally known reaction partners of water.

Hazardous decomposition products:

Further information:

- In the event of fire: see section 5. - Stable

# SECTION 11 - TOXICOLOGICAL INFORMATION

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

## APPLICABLE TO PARTIAL COMPONENT(S):

The following applies to Sodium Hydroxide – as the pure substance:

Acute toxicity

Specific symptoms in animal studies:

Eye irritation test (rabbit): burns.

Skin irritation test (rabbit): burns.

Subacute to chronic toxicity

Mutagenicity (mammal cell test): micronucleus negative.

Bacterial mutagenicity: Escherichia coli: negative.

Bacterial mutagenicity: Ames test: negative.

No teratogenic effect in animal experiments.

Further toxicological information

In case of inhalation: burns of mucosal membranes.

In case of skin contact: burns.

In case of eye contact: burns. Risk of blindness.

In case of ingestion: burns in mouth, throat, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach.



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# APPLICABLE TO PARTIAL COMPONENT(S):

The following applies to Ammonium monovanadate, as the pure substance:

Acute toxicity

LC50 (inhalation, rat): >2.5 mg/l /4 h. LD50 (dermal, rabbit): >2500 mg/kg.

LD50 (oral, rat): 169 mg/kg.

Specific symptoms in animal studies: Skin irritation test (human): No irritation.

Subacute to chronic toxicity

Mutagenicity (mammal cell test): positive (in vitro). Bacterial mutagenicity: Bacillus subtilis: positive.

Further toxicological information

In case of inhalation: mucosal irritations, coughing, dyspnoea.

In case of skin contact: irritant effects.

Other notes:

Vanadium and its compounds generally cause irritations after eye and skin contact and mucosal irritations, coughing, and dyspnoea after inhalation. After absorption of toxic quantities changes in the blood picture, loss or weight, cardiovascular complaints.

The following applies to ammonium salts in general: after swallowing: local irritation symptoms, nausea, vomiting, diarrhoea. Systemic effect: after the uptake of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis, haemolysis.

## 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**

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

## APPLICABLE TO PARTIAL COMPONENT(S):

The following applies to Sodium Hydroxide— as the pure substance:

Biologic degradation: methods for the determination of biodegradability are not applicable to inorganic substances.

Behavior in environmental compartments: concentration in organisms is not to be expected

Ecotoxic effects

Biological effects: Harmfull effect on aquatic organisms. Toxic effect on fish and plankton. Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted. Does not cause biological oxygen deficit. Neutralization possible in waste water treatment plants.

Fish toxicity: Onchorhynchus mykiss  $LC_{50}$ : 45.4 mg/L /96 h (in hard water). L.macrochirus  $LC_{50}$ : 99 mg/L /48 h. Daphnia toxicity: Daphnia magna  $EC_{50}$ : 76 mg/L /24 h.

#### APPLICABLE TO PARTIAL COMPONENT(S):

The following applies to Ammonium monovanadate – as the pure substance:

Biologic degradation: methods for the determination of biodegradability are not applicable to inorganic substances.

Ecotoxic effects

Biological effects: Toxic for aquatic organisms.

Fish toxicity: Ictalurus punctatus LC<sub>50</sub>: 2.6 mg/L /96 h.

Further ecologic data:

The following applies to vanadium compounds in general: toxic for aquatic organisms:  $LD_{50}$  from 4.8 mg/L up in soft water, from 30 mg/L up in hard water.

The following applies to ammonium ions in genera: biological effects: fish: toxic as from 0.3 mg/L; nourishment for fish: toxic as from 0.3 mg/L.

Do not allow to enter waters, waste waters, or soil!



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## **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**

Not subject to transport regulation.

# **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 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:

20 : Harmful by inhalation. 25 : Toxic if swallowed. 35 : Causes severe burns.

36/37 : Irritating to eyes and respiratory system.

Supersedes edition of : / (1<sup>st</sup> 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.