

Milwaukee Electronics Kft.

MI554B-0 - Tartaric Acid Reagent A

Revision nr.3 Dated 7/7/2020 Printed on 7/7/2020 Page n. 1 / 10 Replaced revision:2 (Dated 4/24/2018)

Safety Data Sheet

According to U.S.A. Federal Hazcom 2012 and Canadian HPR - WHMIS 2015

1. Identification

1.1. Product identifier

Code MI554B-0

Product name Tartaric Acid Reagent A

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use Reagent for Wine Analysis.

1.3. Details of the supplier of the safety data sheet

Name Milwaukee Electronics Kft.
Full address Alsókikötő sor 11.
District and Country H6726 Szeged

Hungary

Tel. +36-62-428-050 Fax +36-62-428-051

e-mail address of the competent person

responsible for the Safety Data Sheet info@milwaukeeinst.com

Product distribution by: Milwaukee Instruments, Inc.- 2950 Business Park Drive - Rocky Mount - NC 27804 -

U.S.A. - Technical Service Contact Information: +1 252 443 3630, fax number

252.443.1937 - e-mail: sales@milwaukeeinstruments.com

1.4. Emergency telephone number

For urgent inquiries refer to USA Emergency Contact Information: +1-800-424-9300 - CHEMTREC 24 hours/365

days

2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200). The product thus requires a safety datasheet.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Classification and Hazard Statement

Reproductive toxicity, category 2

Specific target organ toxicity - repeated exposure,

category 1

Suspected of damaging fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure.

Hazard pictograms:



Signal words: Danger

Hazard statements:

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:

Prevention:

P201 Obtain special instructions before use.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.

Response:

P308+P313 IF exposed or concerned: Get medical advice / attention.

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2. Hazards identification .../>>

Storage:

Disposal:

2.2. Other hazards

Information not available

3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification:

AMMONIUM MONOVANADATE

CAS 7803-55-6 $1 \le x < 2.5$ Reproductive toxicity, category 2 H361, Acute toxicity, category 3 H301,

Acute toxicity, category 4 H332, Specific target organ toxicity - repeated exposure,

category 1 H372, Eye irritation, category 2 H319,

Hazardous to the aquatic environment, chronic toxicity, category 2 H411

EC 232-261-3

INDEX

AMMONIUM HYDROXIDE

CAS 1336-21-6 $0.1 \le x < 0.5$ Substance o

Substance or mixture corrosive to metals, category 1 H290, Skin corrosion,

category 1B H314, Serious eye damage, category 1 H318,

Specific target organ toxicity - single exposure, category 3 H335, Hazardous to the aquatic environment, acute toxicity, category 1 H400 M=1

EC 215-647-6 INDEX 007-001-01-2

The full wording of hazard (H) phrases is given in section 16 of the sheet.

4. First-aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

AMMONIUM MONOVANADATE

Irritant effects, Cough, Shortness of breath, The following applies to ammonium salts in general: after swallowing: local irritation symptoms, nausea, vomiting, diarrhoea. Systemic effect: after the uptake of very large qantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis, haemolysis. 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 of weight, cardiovascular complaints.

AMMONIUM HYDROXIDE

AMMONIUM HYDROXIDE 32%: Irritation and corrosion, bronchitis, Cough, Shortness of breath, gastric pain, Unconsciousness, Bloody vomiting, Nausea, collapse, shock, Risk of blindness!.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

^{*} There is a batch to batch variation.



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5. Fire-fighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

AMMONIUM MONOVANADATE

Not combustible. Ambient fire may liberate hazardous vapours. Fire may cause evolution of: nitrogen oxides, Ammonia.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available



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8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

ΕU **OEL EU** Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC;

Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.

TLV-ACGIH ACGIH 2019

AMMONIUM HYDROXIDE						
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15	STEL/15min	
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	14	20			
TLV-ACGIH	-	17	25	24	35	

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

Value

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations.

Protect hands with category III work gloves (OSHA 29 CFR 1910.138).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Properties

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing. EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance liquid Colour colourless Odour odourless Odour threshold Not available рΗ 9.9 Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available Flash point Not applicable Evaporation rate Not available Flammability (solid, gas) Not available Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available Vapour pressure Not available Vapour density Not available Relative density soluble in water

Solubility Partition coefficient: n-octanol/water Not available Not available Auto-ignition temperature Decomposition temperature Not available Not available Viscosity

Information



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9. Physical and chemical properties .../>>

Explosive properties not applicable Oxidising properties not applicable

9.2. Other information

Total solids (250°C / 482°F) 1,97 %

10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

AMMONIUM HYDROXIDE

AMMONIUM HYDROXIDE 32%: Corrodes aluminium, iron, zinc, copper and their alloys.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

Violent reactions possible with: Strong oxidizing agents, acids. Generates dangerous gases or fumes in contact with: alkalines, Release of: Ammonia.

AMMONIUM HYDROXIDE

AMMONIUM HYDROXIDE 32%: Risk of explosion on contact with strong acids and iodine. Can react dangerously with strong bases.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

AMMONIUM MONOVANADATE

Strong heating (decomposition).

10.5. Incompatible materials

AMMONIUM HYDROXIDE

AMMONIUM HYDROXIDE 32%: Silver, lead, zinc and their salts; hydrochloric acid, nitric acid, oleum, halogens, acrolein, nitromethane and acrylic acid.

10.6. Hazardous decomposition products

AMMONIUM HYDROXIDE

AMMONIUM HYDROXIDE 32%: Nitric oxides.

11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

AMMONIUM MONOVANADATE

Eye irritation, Causes serious eye irritation - Genotoxicity in vitro, Ames test, Salmonella typhimurium, Result: positive (Lit.) - Specific target organ toxicity, single exposure, May cause respiratory irritation.

AMMONIUM HYDROXIDE

AMMONIUM HYDROXIDE 32% - Skin irritation rabbit, Result: Severe irritations, (29% solution), Dermatitis Necrosis, Mixture causes burns - Eye irritation rabbit, Result: Severe irritations, (29% solution), Mixture causes serious eye damage. Risk of blindness!

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure



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11. Toxicological information .../>>

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

AMMONIUM HYDROXIDE

LD50 (Oral) 350 mg/kg Rat

AMMONIUM MONOVANADATE

 LD50 (Oral)
 58 mg/kg Rat

 LD50 (Dermal)
 2120 mg/kg Rat

 LC50 (Inhalation)
 2.5 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Suspected of damaging fertility or the unborn child

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Causes damage to organs

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

12. Ecological information

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

12.1. Toxicity



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12. Ecological information .../>>

AMMONIUM HYDROXIDE

LC50 - for Fish 0.53 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea 20 mg/l/48h Daphnia magna

AMMONIUM MONOVANADATE

LC50 - for Fish 2.6 mg/l/96h lctalurus catus

12.2. Persistence and degradability

AMMONIUM HYDROXIDE

Degradability: information not available

12.3. Bioaccumulative potential

AMMONIUM HYDROXIDE

Partition coefficient: n-octanol/water -1.38 Log Kow

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

AMMONIUM HYDROXIDE

AMMONIUM HYDROXIDE 32% - Biological effects: Harmful effect due to pH shift. Forms toxic mixtures in water, dilution measures notwithstanding. Further information on ecology Discharge into the environment must be avoided.

13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

@EPY 9.11.0 - SDS 1004.13

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14. Transport information .../>>

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal Regulations

TSCA:

All components are listed on TSCA Inventory.

Clean Air Act Section 112(b):

No component(s) listed.

Clean Air Act Section 602 Class I Substances:

No component(s) listed.

Clean Air Act Section 602 Class II Substances:

No component(s) listed.

Clean Water Act – Priority Pollutants:

No component(s) listed.

Clean Water Act – Toxic Pollutants:

No component(s) listed.

DEA List I Chemicals (Precursor Chemicals):

No component(s) listed.

DEA List II Chemicals (Essential Chemicals):

No component(s) listed.

EPA List of Lists:

313 Category Code:

7803-55-6 AMMONIUM MONOVANADATE 1336-21-6 AMMONIUM HYDROXIDE

EPCRA 302 EHS TPQ:

No component(s) listed.

EPCRA 304 EHS RQ:

No component(s) listed.

CERCLA RQ:

7803-55-6 AMMONIUM MONOVANADATE 1336-21-6 AMMONIUM HYDROXIDE 1310-73-2 SODIUM HYDROXIDE

EPCRA 313 TRI:

7803-55-6 AMMONIUM MONOVANADATE 1336-21-6 AMMONIUM HYDROXIDE

RCRA Code:

7803-55-6 AMMONIUM MONOVANADATE

CAA 112 (r) RMP TQ: No component(s) listed.

State Regulations

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15. Regulatory information .../>>

Massachussetts:

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Minnesota:

1310-73-2 SODIUM HYDROXIDE

New Jersey:

7803-55-6 AMMONIUM MONOVANADATE 1336-21-6 AMMONIUM HYDROXIDE 1310-73-2 SODIUM HYDROXIDE

New York:

7803-55-6 AMMONIUM MONOVANADATE 1336-21-6 AMMONIUM HYDROXIDE 1310-73-2 SODIUM HYDROXIDE

Pennsylvania:

7803-55-6 AMMONIUM MONOVANADATE 1336-21-6 AMMONIUM HYDROXIDE 1310-73-2 SODIUM HYDROXIDE

California:

1336-21-6 AMMONIUM HYDROXIDE 1310-73-2 SODIUM HYDROXIDE

Proposition 65:

This product does not contain any substances know to the State of California to cause cancer, reproductive harm or birth defects.

International Regulations

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Candadian WHMIS

Information not available

16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

H290 May be corrosive to metals.

H361 Suspected of damaging fertility or the unborn child.

H301 Toxic if swallowed. H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H314 Causes severe skin burns and eye damage.

H319Causes serious eye irritation.H335May cause respiratory irritation.H400Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: EC Regulation 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency

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16. Other information .../>>

- EPCRA: Emergency Planning and Community Right-to Know Act- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Comunication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachussetts 105 CMR Department of public health 670.000: "Right to Know"
- Minensota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the criteria set out in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200), unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review:

The following sections were modified:

01 / 03 / 04 / 05 / 08 / 09 / 10 / 11 / 12 / 15 / 16.