Printing date 05/17/2024

Reviewed on 05/17/2024

| rinting date 05/17/2024 | Reviewed on 05/17/20. |
|--|--|
| 1 Identification | |
| · Product identifier | |
| • Trade name: <u>Titration Solvent</u> For Sulfates, MBHA | |
| • Article number: M-122 | |
| • Details of the supplier of the safety data she | et 🔰 |
| • <i>Manufacturer/Supplier:</i> Aqua Solutions, Inc. | |
| 6913 Highway 225 | SOLUTIONS |
| DEER PARK, TX 77536 | |
| USA | |
| 800-256-2586 | |
| Information department: | |
| Technical Coordinator | |
| Sherman Nelson shermann@aquasolutions.o • Emergency telephone number: | rg |
| Chemtrec: 800-424-9300 | |
| Canutec: 613-996-6666 | |
| 2 Hazard(s) identification | |
| | |
| • Classification of the substance or mixture | |
| | |
| GHS02 Flame | |
| Flammable Liquids 2 | H225 Highly flammable liquid and vapor. |
| \mathbf{A} | |
| GHS06 Skull and crossbones | |
| Acute Toxicity - Oral 3 | H301 Toxic if swallowed. |
| Acute Toxicity - Dermal 3 | H311 Toxic in contact with skin. |
| Acute Toxicity - Inhalation 3 | H331 Toxic if inhaled. |
| | · · · · · · · · · · · · · · · · · · · |
| GHS08 Health hazard | |
| | |
| Specific Target Organ Toxicity - Single Expo | osure 1 H370 Causes damage to the central nervous system and th visual organs. |
| · Label elements | |
| | d and labeled according to the Globally Harmonized System (GHS). |
| · Hazard pictograms | |
| $\land \land \land$ | |
| 〈��〉〈☆◇〈ふ〉 | |
| | |
| GHS02 GHS06 GHS08 | |
| · Signal word Danger | |
| - · | ~ |
| Hazard-determining components of labeling Methanol | <u>;;</u> |
| 11201141101 | (Contd. on page |

(Contd. on page 2)

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| | (Contd. of page 1) |
|--|--------------------|
| · Hazard statements | |
| Highly flammable liquid and vapor. | |
| <i>Toxic if swallowed, in contact with skin or if inhaled.</i> | |
| Causes damage to the central nervous system and the visual organs. | |
| · Precautionary statements | |
| Keep away from heat/sparks/open flames/hot surfaces No smoking. | |
| Ground/bond container and receiving equipment. | |
| Use explosion-proof electrical/ventilating/lighting/equipment. | |
| Use only non-sparking tools. | |
| Take precautionary measures against static discharge. | |
| Do not breathe dust/fume/gas/mist/vapors/spray. | |
| Wash thoroughly after handling. | |
| Do not eat, drink or smoke when using this product. | |
| Use only outdoors or in a well-ventilated area. | |
| Wear protective gloves/protective clothing/eye protection/face protection. | |
| If swallowed: Immediately call a poison center/doctor. | |
| Specific treatment (see on this label). | |
| Rinse mouth. | |
| If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower | • |
| IF INHALED: Remove person to fresh air and keep comfortable for breathing. | |
| IF exposed: Call a POISON CENTER or doctor/physician. | |
| Call a poison center/doctor if you feel unwell. | |
| Take off immediately all contaminated clothing and wash it before reuse. | |
| In case of fire: Use CO2, powder or water spray to extinguish. | |
| Store in a well-ventilated place. Keep container tightly closed. | |
| Store in a well-ventilated place. Keep cool. Store locked up. | |
| Dispose of contents/container in accordance with local/regional/national/international regulation | ne - |
| · Classification system: | 13. |
| · NFPA ratings (scale 0 - 4) | |
| (searc 0 - 4) | |
| Health = 2 | |
| Fire = 3 | |
| 2 0 Reactivity = 0 | |
| | |
| · HMIS-ratings (scale 0 - 4) | |
| HEALTH 2 $Health = 2$ | |
| FIRE 3 $Fire = 3$ | |
| $\frac{1}{\text{REACTIVITY}[0]} Reactivity = 0$ | |
| Activity of the activity of th | |
| · Other hazards | |
| · Results of PBT and vPvB assessment | |
| • <i>PBT</i> : Not applicable. | |
| · vPvB: Not applicable. | |
| | |
| | |
| Composition/information on ingredients | |
| · Chemical characterization: Mixtures | |
| Chonnour churacter teathert, manares | |

· Dangerous components:

CAS: 67-56-1 Methanol

(Contd. on page 3)

>99.9%

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(Contd. of page 2)

<0.01%

· Table of Nonhazardous Ingredients

CAS: 50-00-0 Formaldehyde

4 First-aid measures

· Description of first aid measures

- · General information:
- Immediately remove any clothing soiled by the product.
- Remove breathing apparatus only after contaminated clothing have been completely removed.
- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:
- Supply fresh air or oxygen; call for doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
 Wear protective equipment. Keep unprotected persons away.
 Environmental precautions: Dilute with plenty of water.
 Do not allow to enter sewers/ surface or ground water.
 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.

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Trade name: Titration Solvent For Sulfates, MBHA

| · Protective Action Criteria for Chemicals | (Contd. of page 3) |
|--|--------------------|
| · PAC-1: | |
| CAS: 67-56-1 Methanol | 530 ppm |
| CAS: 50-00-0 Formaldehyde | 0.90 ppm |
| · PAC-2: | |
| CAS: 67-56-1 Methanol | 2,100 ppm |
| CAS: 50-00-0 Formaldehyde | 14 ppm |
| · PAC-3: | |
| CAS: 67-56-1 Methanol | 7200* ppm |
| CAS: 50-00-0 Formaldehyde | 56 ppm |

7 Handling and storage

· Handling:

• **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.

• Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.

- Conditions for safe storage, including any incompatibilities • Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- \cdot Further information about storage conditions:
- Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

CAS: 67-56-1 Methanol

- PEL Long-term value: 260 mg/m³, 200 ppm
- REL Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
- TLV Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI

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(Contd. of page 4)

| - | dients with biological limit values: |
|---|---|
| CAS: | 67-56-1 Methanol |
| BEI | 15 mg/L |
| | LD50 Intraperitoneal: urine |
| | Time: end of shift |
| | LD50: Methanol (background, nonspecific) |
| Addi | tional information: The lists that were valid during the creation were used as basis. |
| Expo | sure controls |
| | onal protective equipment: |
| | ral protective and hygienic measures: |
| | away from foodstuffs, beverages and feed. |
| | diately remove all soiled and contaminated clothing. |
| | hands before breaks and at the end of work. |
| | protective clothing separately. |
| | contact with the eyes and skin. |
| | thing equipment: |
| | se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure us |
| respi | ratory protective device that is independent of circulating air. |
| Prote | action of hands: |
| ſ | |
| Phillip | Protective gloves |
| chem Selec Mate The s varie the g Pene The c obser Eye p | Tightly sealed goggles |
| Body | protection: Protective work clothing |
| Phy | sical and chemical properties |
| | mation on basic physical and chemical properties |

· Appearance:

Form:LiquidColor:Clear• Odor:Methanol

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| | (Contd. of page : |
|---|--|
| · Odor threshold: | Not determined. |
| · pH-value: | Not determined. |
| · Change in condition | |
| Melting point/Melting range: | $-97.8 \circ C (-144 \circ F)$ |
| Boiling point/Boiling range: | 64 °C (147.2 °F) |
| · Flash point: | 11 °C (51.8 °F) |
| · Flammability (solid, gaseous): | Highly flammable. |
| · Auto igniting: | 455 °C (851 °F) |
| · Decomposition temperature: | Not determined. |
| · Ignition temperature: | Product is not selfigniting. |
| · Danger of explosion: | Product is not explosive. However, formation of explosive air/vapo mixtures are possible. |
| · Explosion limits: | |
| Lower: | 5.5 Vol % |
| Upper: | 44 Vol % |
| · Vapor pressure at 20 °C (68 °F): | 128 hPa (96 mm Hg) |
| · Density at 20 °C (68 °F): | 0.7915 g/cm ³ (6.60507 lbs/gal) |
| · Relative density | Not determined. |
| · Vapor density | Not determined. |
| · Evaporation rate | Not determined. |
| · Solubility in / Miscibility with | |
| Water: | Fully miscible. |
| · Partition coefficient (n-octanol/wate | e r): Not determined. |
| · Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| · Solvent content: | |
| Organic solvents: | >99.9 % |
| VOC content: | >99.91 % |
| | >790.8 g/l / >6.60 lb/gal |
| Solids content: | 0.0 % |
| • Other information | No further relevant information available. |

10 Stability and reactivity

• *Reactivity* No further relevant information available.

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

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For Sulfates, MBHA

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

| Oral | LD50 | <100 mg/kg |
|------------|---------|------------|
| Dermal | LD50 | <300 mg/kg |
| Inhalative | LC50/4h | <3 mg/l |

· Primary irritant effect:

- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations: Toxic

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 50-00-0 Formaldehyde

· NTP (National Toxicology Program)

CAS: 50-00-0 Formaldehyde

· OSHA-Ca (Occupational Safety & Health Administration)

CAS: 50-00-0 Formaldehyde

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- \cdot Other adverse effects No further relevant information available.

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(Contd. of page 6)

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(Contd. of page 7)

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- *Recommendation: Disposal must be made according to official regulations.*
- Recommended cleansing agent: Water, if necessary with cleansing agents.

| UN-Number DOT, IMDG, IATA | UN1993 |
|--|---|
| UN proper shipping name DOT IMDG, IATA | Flammable liquids, n.o.s. (Methanol) FLAMMABLE LIQUID, N.O.S. (Methanol) |
| Transport hazard class(es) | |
| DOT | |
| PLANMAGE LODO | |
| Class | 3 Flammable liquids |
| Label | 3 |
| Class | 3 Flammable liquids |
| Label | 3 |
| Packing group DOT, IMDG, IATA | 11 |
| Environmental hazards: Marine pollutant: | No |
| Special precautions for user | Warning: Flammable liquids |
| Hazard identification number (Kemler c | |
| EMS Number: Stowage Category | F-E, <u>S-E</u> B |
| Transport in bulk according to Annex II | I of Not applicable. |

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| (Contd. of page 8) |
|--|
| |
| |
| On passenger aircraft/rail: 1 L |
| On cargo aircraft only: 60 L |
| |
| 1L |
| Code: E2 |
| Maximum net quantity per inner packaging: 30 ml |
| Maximum net quantity per outer packaging: 500 ml |
| UN 1993 FLAMMABLE LIQUID, N.O.S. (METHANOL), 3, II |
| |

15 Regulatory information

| Safety, health and environmental regulations/legislation specific for the substance or mixtu | ire |
|--|-----|
| No further relevant information available. | |

| · | Sara |
|---|------|
|---|------|

| · Section 355 (extremely hazardous substances): | |
|---|--------|
| CAS: 50-00-0 Formaldehyde | |
| · Section 313 (Specific toxic chemical listings): | |
| All ingredients are listed. | |
| · TSCA (Toxic Substances Control Act): | |
| Methanol | ACTIVE |
| Formaldehyde | ACTIVE |
| · Hazardous Air Pollutants | |
| All ingredients are listed. | |
| · Proposition 65 | |
| · Chemicals known to cause cancer: | |
| CAS: 50-00-0 Formaldehyde | |
| · Chemicals known to cause reproductive toxicity for females: | |

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

 Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol

• Carcinogenic categories • EPA (Environmental Protection Agency)

CAS: 50-00-0 Formaldehyde

· TLV (Threshold Limit Value)

CAS: 50-00-0 Formaldehyde

· NIOSH-Ca (National Institute for Occupational Safety and Health)

CAS: 50-00-0 Formaldehyde

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 10)

US

B1

A2

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Trade name: Titration Solvent For Sulfates, MBHA Reviewed on 05/17/2024

(Contd. of page 9) · Hazard pictograms GHS02 GHS06 GHS08 · Signal word Danger · Hazard-determining components of labeling: Methanol · Hazard statements Highly flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Causes damage to the central nervous system and the visual organs. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Rinse mouth. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed: Call a POISON CENTER or doctor/physician. Call a poison center/doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

Contact: Date of Preparation / Last Revision:
Date of preparation / last revision Revision 1.2, 05/17/2024: Reviewed SDS for accuracy. MH/STN Creation Date for SDS 12-03-2014 STN 05/17/2024

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| | (Contd. of page 10 |
|---|--------------------|
| Abbreviations and acronyms: | |
| IMDG: International Maritime Code for Dangerous Goods | |
| DOT: US Department of Transportation | |
| IATA: International Air Transport Association | |
| EINECS: European Inventory of Existing Commercial Chemical Substances | |
| ELINCS: European List of Notified Chemical Substances | |
| CAS: Chemical Abstracts Service (division of the American Chemical Society) | |
| NFPA: National Fire Protection Association (USA) | |
| HMIS: Hazardous Materials Identification System (USA) | |
| VOC: Volatile Organic Compounds (USA, EU) | |
| LC50: Lethal concentration, 50 percent | |
| LD50: Lethal dose, 50 percent | |
| PBT: Persistent, Bioaccumulative and Toxic | |
| vPvB: very Persistent and very Bioaccumulative | |
| NIOSH: National Institute for Occupational Safety | |
| OSHA: Occupational Safety & Health | |
| TLV: Threshold Limit Value | |
| PEL: Permissible Exposure Limit | |
| REL: Recommended Exposure Limit | |
| BEI: Biological Exposure Limit | |
| Flammable Liquids 2: Flammable liquids – Category 2 | |
| Acute Toxicity - Oral 3: Acute toxicity – Category 3 | |
| Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1 | |
| * Data compared to the previous version altered. | |
| | |