Printing date 12/13/2018 Reviewed on 01/08/2018

#### 1 Identification

· Product identifier

· Trade name: Tin Metal, Reagent ACS Mossy

· Article number: T5023

• CAS Number: 7440-31-5 • EC number: 231-141-8

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586

· Information department:

Technical Coordinator

Sherman Nelson sherman@aquasolutions.org

Technical Coordinator

Sherman Nelson sherman@aquasolutions.org

Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666



### 2 Hazard(s) identification

· Classification of the substance or mixture

The substance is not classified, according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements Not Applicable
- · Hazard pictograms Not Applicable
- · Signal word Not Applicable
- · Hazard statements Not Applicable
- · Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

If swallowed: Call a poison center/doctor if you feel unwell.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0 Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



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# Safety Data Sheet acc. to OSHA HCS

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· Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

### 3 Composition/information on ingredients

· Chemical characterization: Substances

· CAS No. Description 7440-31-5 Tin Metal · Identification number(s)

· EC number: 231-141-8

### 4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · 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: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · 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.

- · Protective Action Criteria for Chemicals
- · **PAC-1**: 6 mg/m<sup>3</sup>
- · PAC-2: 67 mg/m<sup>3</sup>
- · PAC-3: 400 mg/m<sup>3</sup>

US

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#### 7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · 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 item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

#### CAS: 7440-31-5 Tin Metal

PEL Long-term value: 2 mg/m³ metal

REL Long-term value: 2 mg/m³ TLV Long-term value: 2 mg/m³

metal

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

- · Breathing equipment: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Eye protection: Not required.
- · Body protection: Protective work clothing

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| Information on basic physical and    | chemical properties                           |
|--------------------------------------|---|
| General Information                  | • •   |
| Appearance:                          |   |
| Form:                                | Solid   |
| Color:                               | Not determined.                               |
| Odor:                                | Characteristic                                |
| Odor threshold:                      | Not determined.                               |
| pH-value:                            | Not applicable.                               |
| Change in condition                  |   |
| Melting point/Melting range:         | Undetermined.                                 |
| Boiling point/Boiling range:         | Undetermined.                                 |
| Flash point:                         | Not applicable.                               |
| Flammability (solid, gaseous):       | Product is not flammable.                     |
| Decomposition temperature:           | Not determined.                               |
| Auto igniting:                       | Not determined.                               |
| Danger of explosion:                 | Product does not present an explosion hazard. |
| Explosion limits:                    |   |
| Lower:                               | Not determined.                               |
| Upper:                               | Not determined.                               |
| Vapor pressure:                      | Not applicable.                               |
| Density at 20 °C (68 °F):            | $3.5 \ g/cm^3 (29.2075 \ lbs/gal)$            |
| Bulk density:                        | $4,000 \ kg/m^3$                              |
| Relative density                     | Not determined.                               |
| Vapor density                        | Not applicable.                               |
| Evaporation rate                     | Not applicable.                               |
| Solubility in / Miscibility with     |   |
| Water:                               | Not determined.                               |
| Partition coefficient (n-octanol/wat | ter): Not determined.                         |
| Viscosity:                           |   |
| Dynamic:                             | Not applicable.                               |
| Kinematic:                           | Not applicable.                               |
| 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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· Hazardous decomposition products: No dangerous decomposition products known.

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

### 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: Not hazardous for water.
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation: Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

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· DOT, ADN, IMDG, IATA Not regulated

· UN proper shipping name

· DOT, ADN, IATA

Not regulated

· IMDG

Not Regulated

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|                                      |                 | (Contd. of page |
|--------------------------------------|-----------------|-----------------|
| · Transport hazard class(es)         |                 |                 |
| DOT, ADN, IMDG, IATA                 |                 |                 |
| · Class                              | Not regulated   |                 |
| Packing group                        |                 |                 |
| DOT, IMDG, IATA                      | Not regulated   |                 |
| Environmental hazards:               |                 |                 |
| Marine pollutant:                    | No              |                 |
| Special precautions for user         | Not applicable. |                 |
| Transport in bulk according to Annex | II of           |                 |
| MARPOL73/78 and the IBC Code         | Not applicable. |                 |
| UN "Model Regulation":               | Not regulated   |                 |

### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances): Substance is not listed.
- · Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act):

Tin Metal

- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value established by ACGIH) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · GHS label elements Not Applicable
- · Hazard pictograms Not Applicable
- · Signal word Not Applicable
- · Hazard statements Not Applicable
- · Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

If swallowed: Call a poison center/doctor if you feel unwell.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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### 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

Revision 1.0 12-11-2018: Updated SDS based on new supplier information. STN

Creation date for SDS 04-16-2015. STN

Revsion 0.0, 12-13-2018: Creation date for SDS. STN

12/13/2018 / -

#### · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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

HS