Printing date 05/26/2021

Reviewed on 05/26/2021

## **1** Identification

- · Product identifier
- · Trade name: Cadmium Metal Laboratory Grade, Mossy
- Article number: C0212
- CAS Number: 7440-43-9
- EC number:
- 231-152-8 • Index number:
- 048-002-00-0
- 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 shermann@aquasolutions.org
- Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666

## 2 Hazard(s) identification

#### · Classification of the substance or mixture

GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 2 H330 Fatal if inhaled.



GHS08 Health hazard

Muta. 2 H341 Suspected of causing genetic defects.

Carc. 1B H350 May cause cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

#### · Label elements

• *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Danger

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## Trade name: Cadmium Metal Laboratory Grade, Mossy

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· Hazard statements	
Toxic if swallowed.	
Fatal if inhaled.	
Suspected of causing genetic defects.	
May cause cancer.	
Suspected of damaging fertility or the unborn child.	
Causes damage to organs through prolonged or repeated exposure.	
Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
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.	
[In case of inadequate ventilation] wear respiratory protection.	
If swallowed: Immediately call a poison center/doctor.	
Rinse mouth.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
IF exposed or concerned: Get medical advice/attention.	
Get medical advice/attention if you feel unwell.	
Specific treatment is urgent (see on this label).	
Store in a well-ventilated place. Keep container tightly closed.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international reg	ulations.
Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 4	
Fire = 0	
4 0 Reactivity = 0	
UMIS ratings (agels 0 4)	
HMIS-ratings (scale 0 - 4)	
<b>HEALTH</b> 3 Health = $3$	
FIRE 1 $Fire = 1$	
<b>REACTIVITY</b> Reactivity = $0$	
Other hazards	
Results of PBT and vPvB assessment	
<b>PBT:</b> Not applicable.	
vPvB: Not applicable.	
Composition/information on ingredients	
Chemical characterization: Substances	
CAS No. Description	
7440-43-9 cadmium Metal	

- Identification number(s) EC number: 231-152-8
- · Index number: 048-002-00-0

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#### **4** First-aid measures

#### · Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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: 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: Mouth respiratory protective device.

#### **6** Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up:* Dispose contaminated material as waste according to item 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.
- · Protective Action Criteria for Chemicals
- · PAC-1: 0.10 mg/m<sup>3</sup>
- · PAC-2: 0.76 mg/m<sup>3</sup>
- · PAC-3: 4.7 mg/m<sup>3</sup>

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Thorough dedusting. Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

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· Information about protection against explosions and fires: Keep respiratory protective device available.

· 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: Keep receptacle tightly sealed.

· 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: 7440-43-9 cadmium Metal

PEL Long-term value: 0.005 mg/m<sup>3</sup> as Cd; see 29 CFR 1910.1027

REL See Pocket Guide App. A

*TLV* Long-term value: 0.01 0.002\* mg/m<sup>3</sup> as Cd; \*respirable fraction; BEI

· Ingredients with biological limit values:

#### CAS: 7440-43-9 cadmium Metal

BEI 5  $\mu$ g/g creatinine

LD50 Intraperitoneal: urine Time: not critical LD50: Cadmium (background)

 $5 \mu g/L$ 

LD50 Intraperitoneal: blood

Time: not critical

LD50: Cadmium (background)

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

· Personal protective equipment:

• General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. • Protection of hands:



Protective gloves

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.

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- 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:

Tightly sealed goggles

· Body protection: Protective work clothing

# 9 Physical and chemical properties

Form:SolidColor:WhiteOdorCharacteristicOdor threshold:Not determined.pH-value:Not applicable.Charage in condition Melting point/Melting range:320.9 °C (609.6 °F) 501119 point/Melting range:765 °C (1.400 °F)Flash point:Not applicable.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: Upper:Not determined.Vapor pressure at 180 °C (356 °F):0.00013 hPa (0 mm Hg)Density at 20 °C (68 °F):8.642 g/cm³ (72.11749 lbs/gal)Bulk density: Relative density Vot applicable.2.700 kg/m³ Not applicable.Vapor density Vapor densityNot applicable.Vapor density Vapor densityNot applicable.	General Information Appearance:		
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Explosion limits:       Not determined.         Lower:       Not determined.         Upper:       Not determined.         Vapor pressure at 180 °C (356 °F):       0.00013 hPa (0 mm Hg)         Density at 20 °C (68 °F):       8.642 g/cm <sup>3</sup> (72.11749 lbs/gal)         Bulk density:       2,700 kg/m <sup>3</sup> Relative density       Not determined.         Vapor density       Not applicable.         Evaporation rate       Not applicable.         Solubility in / Miscibility with       Not	Auto igniting:	Not determined.	
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• Vapor pressure at 180 °C (356 °F):       0.00013 hPa (0 mm Hg)         • Density at 20 °C (68 °F):       8.642 g/cm³ (72.11749 lbs/gal)         • Bulk density:       2,700 kg/m³         • Relative density       Not determined.         • Vapor density       Not applicable.         • Evaporation rate       Not applicable.	Lower:	Not determined.	
Density at 20 °C (68 °F):       8.642 g/cm³ (72.11749 lbs/gal)         Bulk density:       2,700 kg/m³         Relative density       Not determined.         Vapor density       Not applicable.         Evaporation rate       Not applicable.         Solubility in / Miscibility with       8.642 g/cm³ (72.11749 lbs/gal)	Upper:	Not determined.	
Bulk density:       2,700 kg/m³         Relative density       Not determined.         Vapor density       Not applicable.         Evaporation rate       Not applicable.         Solubility in / Miscibility with	Vapor pressure at 180 $^{\circ}C$ (356 $^{\circ}F$ ):	0.00013 hPa (0 mm Hg)	
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Vapor density     Not applicable.       Evaporation rate     Not applicable.       Solubility in / Miscibility with     Verticable.	Bulk density:	$2,700 \text{ kg/m}^3$	
Evaporation rate     Not applicable.       Solubility in / Miscibility with     Image: Constraint of the second s	Relative density	Not determined.	
Solubility in / Miscibility with	Vapor density	Not applicable.	
• •	Evaporation rate	Not applicable.	
Water: Not determined.	Solubility in / Miscibility with		
	Water:	Not determined.	

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· Viscosity: Dynamic: Kinematic:

Not applicable. 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.
- $\cdot$  Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · 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:

Oral LD50 100 mg/kg (ATE)

Inhalative LC50/4h 0.05 mg/l (ATE)

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) 1
- · NTP (National Toxicology Program) K
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is 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:
- Water hazard class 3 (Assessment by list): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.

#### • **vPvB:** Not applicable.

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• Other adverse effects No further relevant information available.

#### **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.

Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not regulated	
UN proper shipping name DOT, ADN, IMDG, IATA	Not regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA Class	Not regulated	
Packing group DOT, IMDG, IATA	Not regulated	
Environmental hazards: Marine pollutant:	Environmentally hazardous substance, solid No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
Transport/Additional information:		
DOT Hazardous substance:	10 lbs, 4.54 kg	
UN "Model Regulation":	Not regulated	

# **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

- · Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is listed.
- TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is listed.
- · Chemicals known to cause developmental toxicity: Substance is listed.

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· Carcinogenic categories · EPA (Environmental Protection Agency) B1 • TLV (Threshold Limit Value) A2 · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is listed. • GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS06 GHS08 · Signal word Danger · Hazard statements Toxic if swallowed. Fatal if inhaled. Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. [In case of inadequate ventilation] wear respiratory protection. If swallowed: Immediately call a poison center/doctor. Rinse mouth. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. Specific treatment is urgent (see on this label). Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · National regulations: · Additional classification according to Decree on Hazardous Materials: Carcinogenic hazardous material group I (extremely dangerous). Carcinogenic hazardous material group II (very dangerous). Carcinogenic hazardous material group III (dangerous). · Information about limitation of use: Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases. · 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.

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· Department issuing SDS: Environment protection department.	
· Contact:	
· Date of preparation / last revision	
Revision 1.0 05-07-2021: updated hazard information. STN	
Creation date for SDS 11-26-2014. STN	
05/26/2021 / -	
• <b>Abbreviations and acronyms:</b> 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	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
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	
Acute Tox. 3: Acute toxicity – Category 3	
Acute Tox. 2: Acute toxicity – Category 2 Mute 2: Commonly muteocriticity – Category 2	
Muta. 2: Germ cell mutagenicity – Category 2 Carc. 1B: Carcinogenicity – Category 1B	
Repr. 2: Reproductive toxicity – Category 2	
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1	
	US