Printing date 10/02/2017

Reviewed on 10/02/2017

1 Identification

- · Product identifier
- · Trade name: Antimony Trichloride, Reagent ACS Crystal
- · Article number: A6991
- · CAS Number: 10025-91-9
- · EC number: 233-047-2
- · Index number: 051-001-00-8
- · 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
- · Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666

2 Hazard(s) identification

· Classification of the substance or mixture



Skin Corr. 1B H314 Causes severe skin burns and eye damage.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.

· Label elements

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



· Signal word Danger · Hazard statements Harmful if swallowed. Causes severe skin burns and eye damage. · Precautionary statements Do not breathe dusts or mists. Wash thoroughly after handling.

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- · Identification number(s)
- · EC number: 233-047-2
- · Index number: 051-001-00-8

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.

- After inhalation: 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:
- Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

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• 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
- 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: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Use neutralizing agent.

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: 2.8 mg/m3
- · PAC-2: 25 mg/m3
- · PAC-3: 150 mg/m3

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

- · 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.

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	(Contd. of page 3)
· Con	trol parameters
	ponents with limit values that require monitoring at the workplace:
	: 10025-91-9 antimony trichloride
PEL	Long-term value: 0.5 mg/m ³ as Sb
REL	Long-term value: 0.5 mg/m ³ as Sb
TLV	Long-term value: 0.5 mg/m ³ as Sb
· Addi	tional information: The lists that were valid during the creation were used as basis.
· Pers · Gen Keep Imm Wası Avoi • Brea In co resp	osure controls onal protective equipment: eral protective and hygienic measures: o away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. h hands before breaks and at the end of work. d contact with the eyes and skin. thing equipment: use of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use iratory protective device that is independent of circulating air. ection of hands: Protective gloves
Due chen Selec • Mata The varie • Pene The obse	glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the nical mixture. ction of the glove material on consideration of the penetration times, rates of diffusion and the degradation erial of gloves selection of the suitable gloves does not only depend on the material, but also on further marks of quality and es from manufacturer to manufacturer. etration time of glove material exact break through time has to be found out by the manufacturer of the protective gloves and has to be rved. protection: Tightly sealed goggles
· Body	w protection: Protective work clothing
0 Dhu	sical and chemical properties
- 9 T Ny	

- · Information on basic physical and chemical properties
- General Information Appearance: Form:
- - Crystalline White Color:

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		(Contd. of page
· Odor:	Pungent	
· Odor threshold:	Not determined.	
· pH-value:	Not applicable.	
· Change in condition		
Melting point/Melting range:	73 °C (163 °F)	
Boiling point/Boiling range:	221 °C (430 °F)	
· Flash point:	Not applicable.	
Flammability (solid, gaseous):	Product is not flammable.	
· Ignition temperature:		
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 at 20 °C (68 °F):	0.16 hPa	
Density at 20 °C (68 °F):	3.14 g/cm ³ (26.203 lbs/gal)	
· Bulk density at 20 °C (68 °F):	1,800 kg/m ³	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water at 20 °C (68 °F):	931.5 g/l	
· Partition coefficient (n-octanol/wate	r): 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.
- · Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values that are relevant for classification:
- Oral LD50 525 mg/kg (rat)
- · Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information: Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
- · 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:
- Water hazard class 2 (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- Danger to drinking water if even small quantities leak into the ground.
- · 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:

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.

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UN-Number		
DOT, IMDG, IATA	UN1733	
UN proper shipping name		
DOT	Antimony trichloride, solid	
IMDG, IATA	ANTIMONY TRICHLORIDE, SOLID	
Transport hazard class(es)		
DOT		
CORROSIVE		
8		
Class	8 Corrosive substances	
Label	8	
IMDG, IATA		
P3		
8		
Class	8 Corrosive substances	
Label	8	
Packing group		
DOT, IMDG, IATA	II	
Environmental hazards:	Environmentally hazardous substance, solid	
Special precautions for user	Warning: Corrosive substances	
Danger code (Kemler):	80	
EMS Number:	8-06	
Segregation groups	Acids	
Stowage Category	E	
Stowage Code	SW2 Clear of living quarters.	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:		
DOT		
Quantity limitations	On passenger aircraft/rail: 15 kg	
	On cargo aircraft only: 50 kg	
Hazardous substance:	1000 lbs, 454 kg	
Remarks:	fest und flüssig;	
IMDG		
Limited quantities (LQ)	1 kg	
Excepted quantities (EQ)	Code: E2	
-	Maximum net quantity per inner packaging: 30 g	
	Maximum net quantity per outer packaging: 500 g	
Remarks:	fest und flüssig;	

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· UN "Model Regulation":

UN 1733 ANTIMONY TRICHLORIDE, 8, II

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 listed.
- TSCA (Toxic Substances Control Act): Substance is listed.
- · 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 The substance is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



· Signal word Danger · Hazard statements Harmful if swallowed. Causes severe skin burns and eye damage. · Precautionary statements Do not breathe dusts or mists. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. If swallowed: Rinse mouth. Do NOT induce vomiting. 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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse. 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.

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	ation is based on our present knowledge. However, this shall not constitute a guarantee for a duct features and shall not establish a legally valid contractual relationship.
	<i>issuing SDS:</i> Environment protection department.
Department Contact:	issuing 5DS; Environment protection department.
	paration / last revision
), 11-30-2016: Creation Date for SDS. STN
10-02-2017	review SDS for accuracy. STN
10/02/2017	/-
Abbreviatio	ns and acronyms:
ADR: Accord	européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation
	ingerous Goods by Road)
IMDG: Interne	ttional Maritime Code for Dangerous Goods
	irtment of Transportation
	ional Air Transport Association
	can Conference of Governmental Industrial Hygienists
	pean Inventory of Existing Commercial Chemical Substances
	l Abstracts Service (division of the American Chemical Society) al Fire Protection Association (USA)
	ous Materials Identification System (USA)
	concentration, 50 percent
	lose, 50 percent
	t, Bioaccumulative and Toxic
vPvB: very Per	sistent and very Bioaccumulative
NIOSH: Natio	nal Institute for Occupational Safety
	utional Safety & Health
TLV: Threshol	
	ble Exposure Limit
	ended Exposure Limit
	Acute toxicity – Category 4
Skin Corr. 1B:	Skin corrosion/irritation – Category 1B