Printing date 06/04/2024

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Reviewed on 06/04/2024

Identification Product identifier Product i		
Trade name: Nessler's Reagent Special for Acetone Test Article number: CG01A Details of the supplier of the safety data sheet Manufacturer/Supplier: Agua Solutions, Inc. Agua Solutions, Inc. DEER PARK, TX 7758 USA 800-256-2586 Stateward Solutions of the substance Information department: Technical Coordinator Scheman Nelson shermann® aquasolutions.org Emergency telephone number: Chemtree: 800-256-2586 Harard(s) identification Eastication of the substance or mixture Or Scheman Nelson shermann® aquasolutions.org Emergency telephone number: Chemtree: 800-424-9300 Canuec: 615906-6666 Harard(s) identification Eastication of the substance or mixture Or Scheman Color Schemes Actue Toxicity - Oral 3 Actue Toxicity - Oral 3 H301 Toxic if swallowed. Of HS08 Health hazard Ereperduction 2 Germ Cell Mutagenicity 2 H341 Suspected of causing genetic defects. Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn of specific Target Organ Toxicity - Repeated Exposure 1 Shin Corrosion 1A H314 Causes severe skin burns and eye damage. Eye Damage 1 H318	Identification	
Special for Acetone Test Article number: CG01A Details of the supplier of the safety data sheet Manufacturer/Supplier: Agua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA Boo-236-2586 Information department: Technical Coordinator Sherman Nelson shermanm@aquasolutions.org Emergency telephone number: Chemrer: 800-242-9300 Chemrer: 800-242-9300 Canutec: 613-996-6666 Itacard(s) identification Classification of the substance or mixture Image: Correct State in the substance or mixture Image: Classification of the subst	Product identifier	
Article number: CG001A 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: Chemtree: 800-424-9300 Canuez: 613-996-6666 Hazard(s) identification Classification of the substance or mixture Image: Construct of the substance or mixture Image: Classification of the substance or mixture <		
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Signal word Danger	GH202 GH200 GH208	
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Trade name: Nessler's Reagent Special for Acetone Test Reviewed on 06/04/2024

(Contd. of page 1) · Hazard-determining components of labeling: Sodium Hydroxide Mercuric Chloride Potassium Iodide · Hazard statements Toxic if swallowed. Causes severe skin burns and eye damage. Suspected of causing genetic defects. 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 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: Immediately call a poison center/doctor. Specific treatment (see on this label). 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. IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 3Fire = 0Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 3 Health = 3FIRE 0 Fire = 0**REACTIVITY** 1 *Reactivity* = 1 · Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. · **vPvB**: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

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Trade name: Nessler's Reagent

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Special for Aceto	ne Test

	(Contd. of page 2)
· Dangerous components:	
CAS: 1310-73-2 Sodium Hydroxide	9.19%
CAS: 7681-11-0 Potassium Iodide	4.411%
CAS: 7487-94-7 Mercuric Chloride	1.666%
· Table of Nonhazardous Ingredients	
CAS: 7732-18-5 Water	84.733%

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.

- In case of irregular breathing or respiratory arrest provide artificial respiration.
- 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:

Do not induce vomiting; immediately call for medical help.

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

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 product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. 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). Use neutralizing agent. Dispose contaminated material as waste according to section 13.

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		(Contd. of page 3)
Ensure adequate	ventilation.	
· Reference to oth		
	information on safe handling.	
	information on personal protection equipment.	
See Section 13 fo	r disposal information.	
· Protective Action	n Criteria for Chemicals	
· PAC-1:		
CAS: 1310-73-2	Sodium Hydroxide	$0.5 mg/m^3$
CAS: 7681-11-0	Potassium Iodide	1.3 mg/m ³
CAS: 7487-94-7	Mercuric Chloride	0.1 mg/m ³
· PAC-2:		
CAS: 1310-73-2	Sodium Hydroxide	5 mg/m ³
CAS: 7681-11-0	Potassium Iodide	15 mg/m ³
CAS: 7487-94-7	Mercuric Chloride	$0.14 mg/m^3$
· PAC-3:		
CAS: 1310-73-2	Sodium Hydroxide	50 mg/m ³
CAS: 7681-11-0	Potassium Iodide	87 mg/m ³
CAS: 7487-94-7	Mercuric Chloride	38 mg/m ³

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 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 section 7.

· Control parameters

 \cdot Components with limit values that require monitoring at the workplace:

CAS: 1310-73-2 Sodium Hydroxide

PEL Long-term value: 2 mg/m³

REL Ceiling limit value: 2 mg/m³

TLV Ceiling limit value: 2 mg/m³

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0110	7681-11-0 Potassium Iodide
TLV	Long-term value: 0.01 ppm
	A4; Skin; *inhalation
CAS	7487-94-7 Mercuric Chloride
PEL	Long-term value: 0.1 mg/m ³
	as Hg; see OSHA standard interpretation memo
REL	Long-term value: 0.05* mg/m ³ Ceiling limit value: 0.1 mg/m ³
	as Hg; *Vapor; Skin
TLV	Long-term value: 0.025 mg/m ³
	as Hg; A4; Skin; BEI
Ingr	edients with biological limit values:
CAS	7487-94-7 Mercuric Chloride
	20 μg/g creatinine
	LD50 Intraperitoneal: urine
	Time: prior to shift LD50: Mercury
	tional information: The lists that were valid during the creation were used as basis.
Imm Wasl Store	away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. hands before breaks and at the end of work. protective clothing separately. d contact with the cost
Imma Wash Store Avoit Avoit Brea In car respi	ediately remove all soiled and contaminated clothing. I hands before breaks and at the end of work.
Imma Wash Store Avoit Avoit Brea In car respi	ediately remove all soiled and contaminated clothing. a hands before breaks and at the end of work. protective clothing separately. d contact with the eyes. d 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 u ratory protective device that is independent of circulating air.
Imma Wash Store Avoit Avoit Brea In ca respin Prote	ediately remove all soiled and contaminated clothing. a hands before breaks and at the end of work. protective clothing separately. d contact with the eyes. d 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 u ratory protective device that is independent of circulating air. ection of hands:
Imma Wash Store Avoid Brea In ca respin Proto The s Due chem Seleco Mate	ediately remove all soiled and contaminated clothing. a hands before breaks and at the end of work. protective clothing separately. I contact with the eyes. I 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 u ratory protective device that is independent of circulating air. rection of hands: Protective gloves elove 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 ical mixture. tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation rial of gloves
Imma Wasł Store Avoi Brea In ca respi Prota The g Due chem Selec Mate The s varie the g	Adiately remove all soiled and contaminated clothing. A hands before breaks and at the end of work. Protective clothing separately. A contact with the eyes. I contact with the eyes and skin. thing equipment: see of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u ratory protective device that is independent of circulating air. Protective gloves Protective gloves elove 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. tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation rial of gloves election of the suitable gloves does not only depend on the material, but also on further marks of quality are sfrom manufacturer to manufacturer. As the product is a preparation of several substances, the resistance love material can not be calculated in advance and has therefore to be checked prior to the application.
Immu Wasł Store Avoii Brea In ca respi Prota The g Due chen Selec Mate The s varie the gene	 and the solution of the gloves material on consideration of the penetration times, rates of diffusion and the degradation to the glove s of the gloves and the degradation.

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Safety Data Sheet acc. to OSHA HCS

Printing date 06/04/2024

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Trade name: Nessler's Reagent Special for Acetone Test

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and o	chemical properties	
General Information		
Appearance:	x · · · x	
Form: Color:	Liquid Yellow	
· Odor:	Odorless	
• Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
· Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
· Ignition temperature:	Product is not selfigniting.	
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):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1.10177 g/cm³ (9.19427 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:		
Water:	84.7 %	
VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal	

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Trade name: Nessler's Reagent Special for Acetone Test

Solids content:

15.3 %

· 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.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 296 mg/kg

- · Primary irritant effect:
- on the skin: Strong caustic effect on skin and mucous membranes.
- \cdot on the eye:
- Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations: *Toxic*
- Corrosive
- Irritant

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)

CAS: 7487-94-7 Mercuric Chloride

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

• Aquatic toxicity: No further relevant information available.

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Safety Data Sheet acc. to OSHA HCS

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· 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.

· UN-Number · DOT, IMDG, IATA	UN2922
· UN proper shipping name · DOT	Corrosive liquids, toxic, n.o.s. (Sodium Hydroxide, Mercur Chloride)
· IMDG, IATA	CORROSIVE LIQUID, TOXIC, N.O.S. (Sodium Hydroxide Mercuric Chloride)
• Transport hazard class(es)	
DOT	
- Class	8 Corrosive substances
Label	8, 6.1
IMDG	
8 6	

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Trade name: Nessler's Reagent Special for Acetone Test

Label	(Contd. of page 8 8/6.1
IATA	0/0.1
· Class	8 Corrosive substances
· Label	8 (6.1)
· Packing group · DOT, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	No Yes (DOT)
· Special precautions for user	Warning: Corrosive substances
· Hazard identification number (Kemler code):	
· EMS Number:	F-A,S-B
· Segregation groups	(SGG18) Alkalis, (SGG7) heavy metals and their salts (includin their organometallic compounds), (SGG11) mercury and mercur compounds
· Stowage Category	B
· 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: 1 L
	On cargo aircraft only: 30 L
· Remarks:	Special marking with the symbol (fish and tree).
·IMDG	
· Limited quantities (LQ)	1L
\cdot Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (SODIUN HYDROXIDE, MERCURIC CHLORIDE), 8 (6.1), II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

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· Section 355 (extremely hazardous substances):

CAS: 7487-94-7 Mercuric Chloride

· Section 313 (Specific toxic chemical listings):

CAS: 7487-94-7 Mercuric Chloride

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Trade name: Nessler's Reagent Special for Acetone Test

	(Contd. of page 0)
TSCA (Toxis Substances Control Act)	(Contd. of page 9)
· TSCA (Toxic Substances Control Act):	
Water	ACTIVE
Sodium Hydroxide	ACTIVE
Potassium Iodide	ACTIVE
Mercuric Chloride	ACTIVE
· Hazardous Air Pollutants	
CAS: 7487-94-7 Mercuric Chloride	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
· 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: 7487-94-7 Mercuric Chloride	

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 7487-94-7	Mercuric Chloride	С
• TLV (Threshold	Limit Value)	
CAS: 7487-94-7	Mercuric Chloride A	4
· NIOSH-Ca (Nat	ional Institute for Occupational Safety and Health)	

None of the ingredients is listed.

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



· Signal word Danger

Hazard-determining components of labeling: Sodium Hydroxide Mercuric Chloride Potassium Iodide
Hazard statements Toxic if swallowed.
Causes severe skin burns and eye damage.
Suspected of causing genetic defects.
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 dusts or mists.

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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: Immediately call a poison center/doctor. Specific treatment (see on this label). 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. IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. 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.

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, 06/04/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 08-30-2016, Creation date for SDS. STN 06/04/2024

· 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 Acute Toxicity - Oral 3: Acute toxicity - Category 3 Skin Corrosion 1A: Skin corrosion/irritation - Category 1A Eye Damage 1: Serious eye damage/eye irritation - Category 1 Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity - Category 2 Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) - Category 1 * Data compared to the previous version altered.

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