Printing date 08/19/2024

Reviewed on 08/19/2024

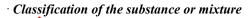
1 Identification

- · Product identifier
- Trade name: <u>Nessler's Reagent</u> <u>APHA for Ammonia Nitrogen</u>
- · Article number: 6350
- 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



GHS06 Skull and crossbones

Acute Toxicity - Oral 3H301 Toxic if swallowed.Acute Toxicity - Dermal 2H310 Fatal in contact with skin.Acute Toxicity - Inhalation 2H330 Fatal if inhaled.



GHS08 Health hazard

Specific Target Organ Toxicity - Repeated Exposure 1 H372 Causes damage to organs through prolonged or repeated exposure.



H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.

Eye Damage 1 • *Label elements*

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



· Signal word Danger

(Contd. on page 2)

US

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Trade name: Nessler's Reagent APHA for Ammonia Nitrogen

| $ \begin{aligned} & \text{Harard-determining components of labeling:} \\ & \text{Mercury lodide (Red)} \\ & \text{Mercury lodide (Red)} \\ & \text{Patast statements} \\ & \text{Tata in contact with skin or if inhaled.} \\ & \text{Causes sever skin burns and eye damage.} \\ & \text{Causes sever skin burns and eye damage.} \\ & \text{Causes sever skin burns and eye damage.} \\ & \text{Causes sever skin burns and eye damage.} \\ & \text{Causes sever skin burns and eye damage.} \\ & \text{Do not get in eyes, on skin, or on clothing.} \\ & \text{Do not get in eyes, on skin, or on clothing.} \\ & \text{Wash thoroughly after handling.} \\ & \text{Do not eat, drink or smoke when using this product.} \\ & \text{Use only outdoors or in a well-venillated area.} \\ & \text{Wear protective gloves/protective clothing/eye protection/face protection.} \\ & \text{If cause of indequate venillation} wear respiratory protection.} \\ & \text{If swallowed: Immediately call a poison center/doctor.} \\ & \text{If wells: Rinse mouth. Do NOT induce womiting.} \\ & \text{If not skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. \\ & \text{If Nextl.LED. Remove person to fresh air and keep comfortable for breathing. \\ & \text{If is even: Rinse cautionsly with water for several minutes. Remove contact lenses, if present and easy to do. \\ & \text{Continue rinsing.} \\ & \text{Get medical dayice/attention if you feel unwell.} \\ & \text{Specific treatment is urgent (see on this label).} \\ & \text{Take off immediately all contaminated clothing wash it before reuse.} \\ & \text{Store in a well-venitiated place. Keep container tighty closed.} \\ & \text{Store in evell-venitiated place. Keep container tighty closed.} \\ & \text{Store in a well-venitiated place. Keep container tighty closed.} \\ & \text{Store in system:} \\ & \text{Stores on system:} \\ & \text{Stores on system:} \\ & \text{Stores on testic scale 0 - 4) \\ & \text{Mark of the same second ance with local/regional/national/international regulations.} \\ & \text{Class of scale 0 - 4} \\ & \text{Fire = 0} \\ & \text{Reactivity = 0} \\ & \text{Halls = 3} \\ & \text{Fire = 0} \\ & \text{Reactivity = 1} \\ & Other marksele scale second second and sc$ | | (Contd. of page 1) |
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| $\begin{aligned} & \text{Mercury foldie (Red)} \\ & \text{Sodium Hydroxide} \\ & \text{Fatal in contact with skin or if inhaled.} \\ & \text{Fatal in contact with skin or if inhaled.} \\ & \text{Causes damage to organs through prolonged or repeated exposure.} \\ & \text{Fatal in contact with skin or miss.} \\ & \text{Do not set in eyes, on skin, or on clothing.} \\ & \text{Wash thoroughly after handling.} \\ & \text{Do not get in eyes, on skin, or on clothing.} \\ & \text{Wash thoroughly after handling.} \\ & \text{Do not get in eyes, on skin, or on clothing.} \\ & \text{Wash thoroughly after handling.} \\ & \text{Do not get in eyes, on skin, or on clothing.} \\ & \text{Wash thoroughly after handling.} \\ & \text{Do not get in eyes, on skin, or on clothing.} \\ & \text{Wash thoroughly after handling.} \\ & \text{Do not exit.} (Thisk or smoke when using this product.} \\ & \text{Use only outdoors or in a well-ventilated area.} \\ & \text{Wear protective elowely rotective clothing figive protection.} \\ & \text{If nacse of inadequate ventilation] wear respiratory protection.} \\ & \text{If nacse of inadequate ventilation] wear respiratory protection.} \\ & \text{If nacse of inadequate ventilation] wear respiratory protection.} \\ & \text{If swallowed. Immediately call a poison center/doctor.} \\ & \text{If swallowed. Immediately call a poison center/doctor.} \\ & \text{If swallowed. Immediately all contaminated clothing. Rinse skin with water/shower.} \\ & \text{If NIALED: Remove person to fresh ati and keep comforable for breahing.} \\ & \text{If in eyes: Rinse eautiously with water for several minutes. Remove contact lenses, if present and easy to do. \\ & \text{Continue rinsing.} \\ & \text{Get medical advice/attention if you feel unwell.} \\ & \text{Specific treatment is urgent (see on his label).} \\ & \text{Take off immediately all contaminated clothing and wash it before reuse.} \\ & \text{Store in a well-ventilated place. Keep container tightly closed. \\ & \text{Store in ocken twp.} \\ & \text{Fire = 0} \\ & \text{Reactivity = 0} \\ \\ & \text{Health = 3 \\ & \text{Fire } = 0 \\ & \text{Reactivity = 1} \\ & \text{Other hacards} \\ & \text{Rewths of PBT and vPvB assessment} \\ & \text{Periodicale}. \\ & Vot applicable$ | · Hazard-determining components of labeling: | |
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| If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell. Specific treatment is urgent (see on this label). Take off immediately all contaminated clothing and wash it before reuse. 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. Classification system: NFPA ratings (scale 0 - 4) Health = 3 Fire = 0 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH $\begin{bmatrix} 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$ | <i>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</i> | |
| Continue rinsing. Get medical advice/attention if you feel unwell. Specific treatment is urgent (see on this label). Take off immediately all contaminated clothing and wash it before reuse. 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. Classification system: NFPA ratings (scale 0 - 4) Health = 3 Fire = 0 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH B Fire = 0 REACTIVITY Reactivity = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. | | esent and easy to do. |
| Get medical advice/attention if you feel unwell. Specific treatment is urgent (see on this label). Take off immediately all contaminated clothing and wash it before reuse. 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. Classification system: • NFPA ratings (scale 0 - 4) • Health = 3 Fire = 0 Reactivity = 0 • HMIS-ratings (scale 0 - 4) • EALTH 3 FIRE 0 Reactivity = 1 • Other hazards Results of PBT and vPvB assessment • PBT: Not applicable. • vPvB: Not applicable. | | • |
| Specific treatment is urgent (see on this label). Take off immediately all contaminated clothing and wash it before reuse. 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. Classification system: NFPA ratings (scale 0 - 4) Mealth = 3 Fire = 0 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 3 FIRE 0 Reactivity = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. | | |
| Take off immediately all contaminated clothing and wash it before reuse.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.Classification system:NFPA ratings (scale 0 - 4) 40000 40000 40000 400000 $4000000000000000000000000000000000000$ | | |
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| Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 3 Fire = 0 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 3 FIRE 0 REACTIVITY 1 Health = 3 Fire = 0 Reactivity = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. | | |
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| | 11 | |
| Composition/information on ingradiants | | |
| Composition/information on ingradiants | | |
| | Composition /information on ingradiants | |
| | | |

• Chemical characterization: Mixtures

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

(Contd. on page 3)

US

Printing date 08/19/2024

Reviewed on 08/19/2024

Trade name: Nessler's Reagent

APHA for Ammonia Nitrogen

| (Contd. of page 2) | | |
|-------------------------------------|--|--|
| | | |
| 13.11% | | |
| 8.194% | | |
| 5.736% | | |
| · Table of Nonhazardous Ingredients | | |
| 72.96% | | |
| | | |

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.

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:

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.

(Contd. on page 4)

[•] US

Printing date 08/19/2024

Reviewed on 08/19/2024

Trade name: Nessler's Reagent APHA for Ammonia Nitrogen

| | 1 1 | (Contd. of page 3) |
|---------------------------|---|-----------------------|
| - | Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. | |
| • Reference to oth | | |
| | r information on safe handling. | |
| | r information on personal protection equipment. | |
| | or disposal information. | |
| | n Criteria for Chemicals | |
| • PAC-1: | | |
| CAS: 1310-73-2 | Sodium Hydroxide | $0.5 mg/m^3$ |
| CAS: 7774-29-0 | Mercury Iodide (Red) | $0.17 \ mg/m^3$ |
| CAS: 7681-11-0 | Potassium Iodide | 1.3 mg/m ³ |
| • PAC-2: | | |
| CAS: 1310-73-2 | Sodium Hydroxide | 5 mg/m ³ |
| CAS: 7774-29-0 | Mercury Iodide (Red) | $0.23 mg/m^3$ |
| CAS: 7681-11-0 | Potassium Iodide | 100 mg/m3 |
| • PAC-3: | | |
| CAS: 1310-73-2 | Sodium Hydroxide | 50 mg/m ³ |
| CAS: 7774-29-0 | Mercury Iodide (Red) | 63 mg/m ³ |
| CAS: 7681-11-0 | Potassium Iodide | 620 mg/m3 |

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

· 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

(Contd. on page 5)

US -

Printing date 08/19/2024

Reviewed on 08/19/2024

Trade name: Nessler's Reagent APHA for Ammonia Nitrogen

| PEL Long-term value: 0.1 mg/m ² as Hg; see OSHA standard interpretation memo REL Long-term value: 0.05* mg/m ³ Ceiling limit value: 0.01% mg/m ³ as Hg; *Vapor; Skin TLF Long-term value: 0.025 mg/m ³ as Hg; *Vapor; Skin TLF Long-term value: 0.01 ppm A4; Skin; *Inhalation Targetients with biological limit values: CAS: 7081-11-0 Potassium Iodide TLV Long-term value: 0.01 ppm A4; Skin; *inhalation Targetients with biological limit values: CAS: 7774-29-0 Mercury Iodide (Red) BEI 20 µg/g creatine LD50 Intraperitoneal: urine Time: prior to shift LD50: Mercury Additional information: The lists that were valid during the creation were used as basis. Exposure controls General protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all solied and contaminated clothing. Wash hands before breaks and at the end forwrk. Store protective clothing separately. Avoid contact with the eyes. | CAS | : 7774-29-0 Mercury Iodide (Red) (Contd. of page 4 |
|---|-------|---|
| as \overline{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: *Vapor; Skin TLV Long-term value: 0.01 pg/m ³ as Hg: *Vapor; Skin TLV Long-term value: 0.01 pg/m ³ A4: Skin; *inhalation Ingredients with biological limit values: CAS: 7774-29-0 Mercury Iodide (Red) BEI 20 µg/g creatinine LD50: Intraperitoneal: urine Time: prior to shift LD50: Mercury Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Inmediately remove all soled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin. Breathing equipment: In case of brief exposure or lo | | |
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| 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. | | |
| 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. | | |
| Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. | | |
| The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. | | |
| The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. | Prote | ection of nanas: |
| The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. | | Protective cloves |
| | | 1 Tolecuve gloves |
| | T1 | $d_{\alpha\alpha}$ |
| | | |

chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot *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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. • 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.

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US

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Safety Data Sheet acc. to OSHA HCS

Printing date 08/19/2024

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Trade name: Nessler's Reagent APHA for Ammonia Nitrogen

• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

| Information on basic physical and c | hemical properties | |
|---------------------------------------|---|--|
| General Information | nemicui properties | |
| Appearance: | | |
| Form: | Liquid | |
| Color: | 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): | 1.22043 g/cm ³ (10.18449 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 | er): Not determined. | |
| Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| Solvent content: | | |
| Water: | 73.0 % | |
| VOC content: | 0.00 % | |
| | 0.0 g/l / 0.00 lb/gal | |

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Safety Data Sheet acc. to OSHA HCS

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Trade name: Nessler's Reagent

APHA for Ammonia Nitrogen

Solids content:

27.0 %

· 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.
- · 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 | 60.8 mg/kg |
|------------|---------|------------|
| Dermal | LD50 | 61 mg/kg |
| Inhalative | LC50/4h | 0.61 mg/l |

· Primary irritant effect:

- on the skin: Strong caustic effect on skin and mucous membranes.
- 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
- Very toxic

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: 7774-29-0 Mercury Iodide (Red) | |
| · NTP (National Toxicology Program) | |
| None of the ingredients is listed. | |
| · OSHA-Ca (Occupational Safety & Health Administration) | |
| None of the ingredients is listed. | |

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APHA for Ammonia Nitrogen

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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.
- \cdot *Mobility in soil* \hat{No} further relevant information available.
- Additional ecological information:

• General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Must not reach bodies of water or drainage ditch undiluted or unneutralized. 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.
- 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 | |
| $\cdot DOT$ | Corrosive liquids, toxic, n.o.s. (Sodium Hydroxide, Mercur Iodide (Red)) |
| ·IMDG | CORROSIVE LIQUID, TOXIC, N.O.S. (Sodium Hydroxid Mercury Iodide (Red)), MARINE POLLUTANT |
| ·IATA | CORROSIVE LIQUID, TOXIC, N.O.S. (Sodium Hydroxid Mercury Iodide (Red)) |
| · Transport hazard class(es) | |
| ·DOT | |
| CORROSIVE 8 6 | |
| · Class | 8 Corrosive substances |

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| Trade name: Nessler's Reagent |
|-------------------------------|
| APHA for Ammonia Nitrogen |

| Label | (Contd. of page 8, 6.1 |
|--|--|
| IMDG | 0, 0.1 |
| | |
| | |
| Class | 8 Corrosive substances |
| Label | 8/6.1 |
| IATA | |
| | |
| Class | 8 Corrosive substances |
| Label | 8 (6.1) |
| Packing group | |
| DOT, IMDG, IATA | II |
| Environmental hazards: | Product contains environmentally hazardous substances: Mercur Iodide (Red) |
| Marine pollutant: | Yes |
| | Symbol (fish and tree) |
| Special precautions for user | Warning: Corrosive substances |
| Hazard identification number (Kemler code): | |
| EMS Number: | <i>F-A,S-B</i> |
| 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 |
| IMDG | |
| Limited quantities (LQ) | IL |
| 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, MERCURY IODIDE (RED)), 8 (6.1), II |

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APHA for Ammonia Nitrogen

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| • Safety, health and environmental regulations/legislation specific for the subs No further relevant information available. | |
|--|--------|
| · Sara | |
| Section 355 (extremely hazardous substances): | |
| None of the ingredients is listed. | |
| · Section 313 (Specific toxic chemical listings): | |
| CAS: 7774-29-0 Mercury Iodide (Red) | |
| • TSCA (Toxic Substances Control Act): | |
| Water | ACTIVI |
| Sodium Hydroxide | ACTIVI |
| Mercury Iodide (Red) | ACTIV |
| Potassium Iodide | ACTIVI |
| · Hazardous Air Pollutants | |
| CAS: 7774-29-0 Mercury Iodide (Red) | |
| · 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: 7774-29-0 Mercury Iodide (Red) | |
| Carcinogenic categories | |
| · EPA (Environmental Protection Agency) | |
| CAS: 7774-29-0 Mercury Iodide (Red) | |

CAS: 7774-29-0 Mercury Iodide (Red)

· NIOSH-Ca (National 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: Mercury Iodide (Red) Sodium Hydroxide Potassium Iodide

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Trade name: Nessler's Reagent APHA for Ammonia Nitrogen

| (Contd. of p | age 10) |
|---|---------|
| · Hazard statements | |
| Toxic if swallowed. | |
| Fatal in contact with skin or if inhaled. | |
| Causes severe skin burns and eye damage. | |
| Causes damage to organs through prolonged or repeated exposure. | |
| · Precautionary statements | |
| Do not breathe dusts or mists. | |
| Do not get in eyes, on skin, or on clothing. | |
| 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. | |
| 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. | |
| Get medical advice/attention if you feel unwell. | |
| Specific treatment is urgent (see on this label). | |
| Take off immediately all contaminated clothing and wash it before reuse. | |
| 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. | |
| • 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, 08-19-2024: Reviewed SDS for accuracy. STN/GW Creation date for SDS 12-03-2015. STN 08/19/2024 / -
- 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

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Trade name: Nessler's Reagent APHA for Ammonia Nitrogen

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REL: Recommended Exposure Limit BEI: Biological Exposure Limit Acute Toxicity - Oral 3: Acute toxicity – Category 3 Acute Toxicity - Dermal 2: Acute toxicity – Category 2 Skin Corrosion 1A: Skin corrosion/irritation – Category 1A Eye Damage 1: Serious eye damage/eye irritation – Category 1 Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1 • * Data compared to the previous version altered.