1 Identification

· Product name: Micro Organic Soap (Undiluted)
· Part number: 148-10000
· Application of the substance / the mixture: Cleaning agent/ Cleaner
· Details of the supplier of the safety data sheet
· Manufacturer/Supplier:
  Allied High Tech Products Inc.
  2376 East Pacifica Place
  USA-RANCHO DOMINGUEZ, CA 90220
  USA
  info@alliedhightech.com
· Information department: Product safety department
· Emergency telephone number:
  During normal opening times: +1 (310) 635-2466
  Chemtrec: +1 (202) 483-7616

2 Hazard(s) identification

· Classification of the substance or mixture

  GHS05 Corrosion
  Eye Dam. 1 H318 Causes serious eye damage.

  GHS07
  Acute Tox. 4 H302 Harmful if swallowed.
  Skin Irrit. 2 H315 Causes skin irritation.

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

  GHS05 GHS07

· Signal word: Danger
· Hazard-determining components of labeling:
  tetrasodium ethylenediaminetetraacetate
  sodium hydroxide

(Contd. on page 2)
Product name: Micro Organic Soap (Undiluted)

- **Hazard statements**
  Harmful if swallowed.
  Causes skin irritation.
  Causes serious eye damage.
- **Precautionary statements**
  Wash thoroughly after handling.
  Do not eat, drink or smoke when using this product.
  Wear protective gloves / eye protection / face protection.
  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.
  Immediately call a poison center/doctor.
  Specific treatment (see on this label).
  Rinse mouth.
  Take off contaminated clothing and wash it before reuse.
  If skin irritation occurs: Get medical advice/attention.
  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 = 0
- **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.

<table>
<thead>
<tr>
<th>Hazardous Components:</th>
<th>Non-hazardous Components:</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-02-8 tetrasodium ethylenediaminetetraacetate</td>
<td>7732-18-5 water, distilled, conductivity or of similar purity</td>
</tr>
<tr>
<td>1310-73-2 sodium hydroxide</td>
<td>26477-10-9 Benzenesulfonic acid, dimethyl-,ammonium salt</td>
</tr>
<tr>
<td>Eye Dam. 1, H318; Acute Tox. 4, H302 10-25%</td>
<td>68584-25-8 Benzenesulfonic acid, C10-16-alkyl derivs., compds. with triethanolamine 1-10%</td>
</tr>
<tr>
<td>Skin Corr. 1A, H314; Acute Tox. 4, H302 ≥0.5≤1%</td>
<td></td>
</tr>
</tbody>
</table>

### 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.
Product name: Micro Organic Soap (Undiluted)

- **After swallowing:** Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** Coughing
- **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** Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Use neutralizing agent.
  - Dispose of contaminated material as waste according to item 13.
- **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**

<table>
<thead>
<tr>
<th>PAC-1:</th>
<th>64-02-8 tetrasodium ethylenediaminetetraacetate</th>
<th>75 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1310-73-2 sodium hydroxide</td>
<td>0.5 mg/m³</td>
</tr>
<tr>
<td>PAC-2:</td>
<td>64-02-8 tetrasodium ethylenediaminetetraacetate</td>
<td>830 mg/m³</td>
</tr>
<tr>
<td></td>
<td>1310-73-2 sodium hydroxide</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>PAC-3:</td>
<td>64-02-8 tetrasodium ethylenediaminetetraacetate</td>
<td>5,000 mg/m³</td>
</tr>
<tr>
<td></td>
<td>1310-73-2 sodium hydroxide</td>
<td>50 mg/m³</td>
</tr>
</tbody>
</table>

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **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:** Store at temperatures not exceeding 43°C.
- **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:**
  - The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
  - At this time, the remaining constituent has no known exposure limits.

(Contd. of page 4)
Product name: Micro Organic Soap (Undiluted)

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

· 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.
  Avoid contact with the skin.
  Avoid contact with the eyes and skin.
· Breathing equipment:
  Not required.
  Use suitable respiratory protective device in case of insufficient ventilation.
· Protection of hands:
  Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
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. 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.
· Eye protection:

Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties
· General Information
· Appearance:
  Form: Liquid
  Color: Yellow
· Odor: Ammonia-like
· Odor threshold: Not determined.
· pH-value at 20 °C (68 °F): 9.5
· Change in condition
  Melting point/Melting range: -8 °C (17.6 °F)
  Boiling point/Boiling range: 100 °C (212 °F)
· Flash point: Not applicable.
· Flammability (solid, gaseous): Not applicable.
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· Decomposition temperature: Not determined.
· Auto igniting: 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 25 °C (77 °F): 0.1 hPa
· Density at 20 °C (68 °F): 1.13 g/cm³ (9.42985 lbs/gal)
· Relative density Not determined.
· Vapor density Not determined.
· Specific gravity at 25 °C (77 °F): 1.135 (Water = 1)
· Evaporation rate Not determined.
· Solubility in / Miscibility with Water: Fully miscible.
· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:
  Dynamic: Not determined.
  Kinematic: Not determined.

· Solvent content:
  Water: 25.0 %
  VOC content: 0.00 %
  0.0 g/l / 0.00 lb/gal
· 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: Carbon monoxide and carbon dioxide
· Additional information:
  May etch aluminum, zinc, steel, copper and plastic materials over an extended period of time. Do not mix with other cleaners.
  Hazardous decomposition products may form during combustion.

11 Toxicological information

· Information on toxicological effects
· Acute toxicity:
  · LD/LC50 values that are relevant for classification:
    ATE (Acute Toxicity Estimate)
    Oral [LD50] 1,980 mg/kg
    64-02-8 tetrasodium ethylenediaminetetraacetate
    Oral [LD50] 500 mg/kg (ATE)
    1310-73-2 sodium hydroxide
    Oral [LD50] 2,000 mg/kg (rat)
· Primary chemical irritant effect:
  · on the skin: Irritant to skin and mucous membranes.

(Contd. on page 6)
Product name: Micro Organic Soap (Undiluted)

- on the eye: Strong irritant with the danger of severe eye injury.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    None of the ingredients is listed.
  - 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.
  - 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: Contact waste processors for recycling information.
- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.
  - Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- UN-Number
  - DOT, IMDG, IATA UN1824
- UN proper shipping name
  - DOT
  - IMDG, IATA Sodium hydroxide solution mixture
  - IMDG, IATA SODIUM HYDROXIDE SOLUTION mixture
- Transport hazard class(es)
  - DOT
  - Class 8 Corrosive substances
Product name: Micro Organic Soap (Undiluted)

Label

IMDG, IATA

Class

Label

Packaging group

DOT, IMDG, IATA

Environmental hazards:

Marine pollutant:

Special precautions for user

Hazard identification number (Kemler code):

EMS Number:

Segregation groups

Stowage Category

Segregation Code

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport/Additional information:

DOT

Quantity limitations

Limited quantities (LQ)

Transport category

Tunnel restriction code

IMDG

Limited quantities (LQ)

Excepted quantities (EQ)

UN "Model Regulation":

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

Hazardous Air Pollutants

None of the ingredients is listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.
Product name: Micro Organic Soap (Undiluted)

- 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:
  None of the ingredients is listed.

- Carcinogenic categories
  - EPA (Environmental Protection Agency)
    None of the ingredients is listed.
  - TLV (Threshold Limit Value established by ACGIH)
    None of the ingredients is listed.
  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    None of the ingredients is listed.

- 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: Kim Dermit
- Last revision: 05/01/2020 / 1.0
- 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
  - 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
  - Acute Tox. 4: Acute toxicity – Category 4
  - Skin Corr. 1A: Skin corrosion/irritation – Category 1A
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Dam. 1: Serious eye damage/eye irritation – Category 1