SECTION 1: Identification

1.1 Product identifier
Trade name MICRO® AO7

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses Professional use Cleaners
Uses advised against Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet
International Products Corporation
201 Connecticut Drive
Burlington, NJ
08016
United States
Https://www.ipcol.com/
+1 6093868770
e-mail (competent person) tmcguckin@ipcol.com (Thomas P. McGuckin)

1.4 Emergency telephone number
Emergency information service 1-609-386-8770
This number is only available during the following office hours: Mon-Fri 08:00 AM - 04:30 PM, Eastern Time

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture
Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Section</th>
<th>Hazard class</th>
<th>Category</th>
<th>Hazard class and category</th>
<th>Hazard statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.3</td>
<td>serious eye damage/eye irritation</td>
<td>2A</td>
<td>Eye Irrit. 2A</td>
<td>H319</td>
</tr>
</tbody>
</table>

For full text of abbreviations: see SECTION 16.

2.2 Label elements
Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)
- Signal word warning
- Pictograms GHS07

Hazard statements.
H319 Causes serious eye irritation.
- Precautionary statements
P280                Wear eye protection/face protection.
P305+P351+P338      If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313           If eye irritation persists: Get medical advice/attention.

2.3 Other hazards
Harmful to aquatic life with long lasting effects (GHS category 3: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances
Not relevant (mixture)

3.2 Mixtures
Description of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Identifier</th>
<th>Wt%</th>
<th>Classification acc. to GHS</th>
<th>Pictograms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric Acid</td>
<td>CAS No 77-92-9</td>
<td>25 – &lt; 50</td>
<td>Acute Tox. 5 / H313 Aquatic Chronic 4 / H413</td>
<td></td>
</tr>
<tr>
<td>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine</td>
<td>CAS No 68584-25-8</td>
<td>1 – &lt; 5</td>
<td>Acute Tox. 5 / H303 Skin Corr. 1 C / H314 Eye Dam. 1 / H318 Aquatic Chronic 3 / H412</td>
<td></td>
</tr>
<tr>
<td>Ammonium Hydroxide</td>
<td>CAS No 1336-21-6</td>
<td>1 – &lt; 5</td>
<td>Skin Corr. 1B / H314 Eye Dam. 1 / H318 STOT SE 3 / H335 Aquatic Acute 1 / H400</td>
<td></td>
</tr>
</tbody>
</table>

For full text of abbreviations: see SECTION 16.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes
Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation
If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact
Wash with plenty of soap and water.

Following ingestion
Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.
4.2 **Most important symptoms and effects, both acute and delayed**

Symptoms and effects are not known to date.

4.3 **Indication of any immediate medical attention and special treatment needed**

none

### SECTION 5: Fire-fighting measures

5.1 **Extinguishing media**

- Suitable extinguishing media
  - Water spray, BC-powder, Carbon dioxide (CO2)
- Unsuitable extinguishing media
  - Water jet

5.2 **Special hazards arising from the substance or mixture**

Hazardous combustion products
- Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

5.3 **Advice for firefighters**

Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### SECTION 6: Accidental release measures

6.1 **Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel
- Remove persons to safety.

For emergency responders
- Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 **Environmental precautions**

- Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 **Methods and material for containment and cleaning up**

Advice on how to clean up a spill
- Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Sawdust, Kieselgur (diatomite), Sand, Universal binder

Appropriate containment techniques
- Use of adsorbent materials.

6.4 **Reference to other sections**

- Hazardous combustion products: see section 5.
- Personal protective equipment: see section 8.
- Incompatible materials: see section 10.
- Disposal considerations: see section 13.
SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations
- Measures to prevent fire as well as aerosol and dust generation
  Use local and general ventilation. Use only in well-ventilated areas.
- Handling of incompatible substances or mixtures

- Keep away from
  Caustic solutions

Advice on general occupational hygiene
Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

- Specific designs for storage rooms or vessels

- Storage temperature
  Recommended storage temperature: 2 – 43 °C

- Packaging compatibilities
  Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)
See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
This information is not available.

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Threshold level</th>
<th>Protection goal, route of exposure</th>
<th>Used in</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine</td>
<td>68584-25-8</td>
<td>DNEL</td>
<td>4.1 mg/m³</td>
<td>human, inhalatory</td>
<td>worker (industry)</td>
<td>chronic - systemic effects</td>
</tr>
<tr>
<td>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine</td>
<td>68584-25-8</td>
<td>DNEL</td>
<td>5.29 mg/kg bw/day</td>
<td>human, dermal</td>
<td>worker (industry)</td>
<td>chronic - systemic effects</td>
</tr>
</tbody>
</table>
### Relevant PNECs of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Endpoint</th>
<th>Threshold level</th>
<th>Organism</th>
<th>Environmental compartment</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine</td>
<td>68584-25-8</td>
<td>PNEC</td>
<td>0.268 mg/l</td>
<td>aquatic organisms</td>
<td>freshwater</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine</td>
<td>68584-25-8</td>
<td>PNEC</td>
<td>0.027 mg/l</td>
<td>aquatic organisms</td>
<td>marine water</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine</td>
<td>68584-25-8</td>
<td>PNEC</td>
<td>7 mg/kg</td>
<td>aquatic organisms</td>
<td>sewage treatment plant (STP)</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine</td>
<td>68584-25-8</td>
<td>PNEC</td>
<td>8.1 mg/kg</td>
<td>aquatic organisms</td>
<td>marine sediment</td>
<td>short-term (single instance)</td>
</tr>
<tr>
<td>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine</td>
<td>68584-25-8</td>
<td>PNEC</td>
<td>35 mg/kg</td>
<td>terrestrial organisms</td>
<td>soil</td>
<td>short-term (single instance)</td>
</tr>
</tbody>
</table>

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)

**Eye/face protection**

- Wear eye/face protection.

**Skin protection**

- **Hand protection**
  
  Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- **Other protection measures**
  
  Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.
### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>clear - colorless - light yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>mild</td>
</tr>
<tr>
<td>pH (value)</td>
<td>2 – 4 (25 °C)</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>-8 °C</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>100 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>not determined</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>not determined</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>not relevant, (fluid)</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>&lt;5 Pa at 20 °C</td>
</tr>
<tr>
<td>Density</td>
<td>1.12 – 1.16 g/ml at 25 °C</td>
</tr>
<tr>
<td>Vapor density</td>
<td>this information is not available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>not determined</td>
</tr>
<tr>
<td>Partition coefficient - n-octanol/water (log KOW)</td>
<td>this information is not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>440 °C (auto-ignition temperature (liquids and gases))</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>- Kinematic viscosity</td>
<td>8.621 mm²/s</td>
</tr>
<tr>
<td>- Dynamic viscosity</td>
<td>10 cP</td>
</tr>
</tbody>
</table>
Explosive properties | none
---|---
Oxidizing properties | none

**SECTION 10: Stability and reactivity**

10.1 **Reactivity**
Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 **Chemical stability**
See below "Conditions to avoid".

10.3 **Possibility of hazardous reactions**
No known hazardous reactions.

10.4 **Conditions to avoid**
Do not mix with other chemicals.

10.5 **Incompatible materials**
Avoid extended contact with uncured paint, zinc, aluminum, cold rolled steel, or copper and its alloys. Avoid contact with polycarbonate, polymethyl methacrylate, and polyphenylene oxide as these plastics may craze over time. Refer to product's compatibility sheets for further details.

10.6 **Hazardous decomposition products**
Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

**SECTION 11: Toxicological information**

11.1 **Information on toxicological effects**
Basis of test data.

Classification procedure
The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

Acute toxicity
Shall not be classified as acutely toxic.

Skin corrosion/irritation
Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation
Causes serious eye irritation.

Respiratory or skin sensitization
Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity
Shall not be classified as germ cell mutagenic.
Carcinogenicity
Shall not be classified as carcinogenic.

Reproductive toxicity
Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure
Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure
Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard
Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity
Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability
Data are not available.

12.3 Bioaccumulative potential
Data are not available.

12.4 Mobility in soil
Data are not available.

12.5 Results of PBT and vPvB assessment
Data are not available.

12.6 Other adverse effects
Endocrine disrupting potential
None of the ingredients are listed.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Sewage disposal-relevant information
Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages
Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks
Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.
SECTION 14: Transport information

14.1 UN number 1760
14.2 UN proper shipping name Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine, Ammonium Hydroxide
   Technical name (hazardous ingredients)
14.3 Transport hazard class(es) not assigned
14.4 Packing group (substance presenting medium danger)
14.5 Environmental hazards non-environmentally hazardous acc. to the dangerous goods regulations
14.6 Special precautions for user There is no additional information.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question
   National regulations (United States)
   Toxic Substance Control Act (TSCA) all ingredients are listed
   Superfund Amendment and Reauthorization Act (SARA TITLE III)
   - The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)
     None of the ingredients are listed.
   - Specific Toxic Chemical Listings (EPCRA Section 313)
     None of the ingredients are listed
   Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
   - List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)
     | Name of substance | CAS No   | Remarks | Statutory code | Final RQ pounds (Kg) |
     |-------------------|----------|---------|----------------|----------------------|
     | Ammonium Hydroxide| 1336-21-6|         | 1              | 1000 (454)           |

Legend
1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act

Clean Air Act None of the ingredients are listed.

New Jersey Worker and Community Right to Know Act
Right to Know Hazardous Substance List

<table>
<thead>
<tr>
<th>Name acc. to inventory</th>
<th>CAS No</th>
<th>Remarks</th>
<th>Classifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMMONIUM HYDROXIDE (AMMONIUM HYDROXIDE ((NH4)(OH)))</td>
<td>1336-21-6</td>
<td></td>
<td>CO</td>
</tr>
</tbody>
</table>

Legend
CO Corrosive

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Not applicable.

Industry or sector specific available guidance(s)

NPCA-HMIS® III

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic</td>
<td>/</td>
<td>none</td>
</tr>
<tr>
<td>Health</td>
<td>2</td>
<td>temporary or minor injury may occur</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
<td>material that must be preheated before ignition can occur</td>
</tr>
<tr>
<td>Physical hazard</td>
<td>0</td>
<td>material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive</td>
</tr>
<tr>
<td>Personal protection</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

NFPA® 704

<table>
<thead>
<tr>
<th>Category</th>
<th>Degree of hazard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>1</td>
<td>material that must be preheated before ignition can occur</td>
</tr>
<tr>
<td>Health</td>
<td>3</td>
<td>material that, under emergency conditions, can cause serious or permanent injury</td>
</tr>
<tr>
<td>Instability</td>
<td>0</td>
<td>material that is normally stable, even under fire conditions</td>
</tr>
<tr>
<td>Special hazard</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

National inventories

<table>
<thead>
<tr>
<th>Country</th>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU</td>
<td>REACH Reg.</td>
<td>all ingredients are listed</td>
</tr>
<tr>
<td>US</td>
<td>TSCA</td>
<td>all ingredients are listed</td>
</tr>
</tbody>
</table>

Legend
REACH Reg. REACH registered substances
TSCA Toxic Substance Control Act
15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information, including date of preparation or last revision

Key literature references and sources for data


Transport of dangerous goods by road or rail (49 CFR US DOT), International Maritime Dangerous Goods Code (IMDG), Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

<table>
<thead>
<tr>
<th>Code</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>H303</td>
<td>May be harmful if swallowed.</td>
</tr>
<tr>
<td>H313</td>
<td>May be harmful in contact with skin.</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life.</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>H413</td>
<td>May cause long lasting harmful effects to aquatic life.</td>
</tr>
</tbody>
</table>

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.