

**MICRO® AO7**  
Citric Acid Cleaner

Date of issue: April 1, 2020

Replaces version of October 1, 2019

**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 Industrial use  
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

**1.3.1 Additional information**

Supplier (distributor)					
Country	Name	Postal code/city	Telephone	e-Mail	Website
United Kingdom	IPCW	SE9 3TL London	+44 (0) 208-857-5678	saleseurope@ipcol.com	www.ipcol.com

e-mail (competent person) **tmcguckin@ipcol.com (Thomas P. McGuckin)**

**1.4 Emergency telephone number**

1.4.1 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)

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.3	serious eye damage/eye irritation	2A	Eye Irrit. 2A	H319

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**

## MICRO® A07

### Citric Acid Cleaner

Date of issue: April 1, 2020

Replaces version of October 1, 2019

#### - 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

#### 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

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

## 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.

**MICRO® AO7**  
Citric Acid Cleaner

Date of issue: April 1, 2020

Replaces version of October 1, 2019

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 (CO<sub>2</sub>)

Unsuitable extinguishing media

Water jet

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

Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)**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.

**MICRO® A07**  
Citric Acid Cleaner

Date of issue: April 1, 2020

Replaces version of October 1, 2019

**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

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

This information is not available.

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine	68584-25-8	DNEL	4.1 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine	68584-25-8	DNEL	5.29 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine	68584-25-8	PNEC	0.268 mg/l	aquatic organisms	freshwater	short-term (single instance)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine	68584-25-8	PNEC	0.027 mg/l	aquatic organisms	marine water	short-term (single instance)

**MICRO® AO7**  
Citric Acid Cleaner

Date of issue: April 1, 2020

Replaces version of October 1, 2019

Relevant PNECs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine	68584-25-8	PNEC	7 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine	68584-25-8	PNEC	8.1 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine	68584-25-8	PNEC	8.1 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine	68584-25-8	PNEC	35 mg/kg	terrestrial organisms	soil	short-term (single instance)

**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.

**MICRO® AO7**  
Citric Acid Cleaner

Date of issue: April 1, 2020

Replaces version of October 1, 2019

**SECTION 9: Physical and chemical properties**

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

**Appearance**

Physical state	liquid
Color	clear-colorless-light yellow
Odor	mild

**Other safety parameters**

pH (value)	2 – 4 (25 °C)
Melting point/freezing point	-8 °C
Initial boiling point and boiling range	100 °C
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	not determined
Vapor pressure	<5 Pa at 20 °C
Density	1.12 – 1.16 g/ml at 25 °C
Vapor density	this information is not available
Solubility(ies)	not determined

**Partition coefficient**

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	440 °C (auto-ignition temperature (liquids and gases))

**Viscosity**

- Kinematic viscosity	8.621 mm <sup>2</sup> /s
- Dynamic viscosity	10 cP

**MICRO® A07**  
Citric Acid Cleaner

Date of issue: April 1, 2020

Replaces version of October 1, 2019

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**

Shelf-life: Five years from the date of manufacture.

**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 classification is based on tested mixture.

**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.

**MICRO® AO7**  
Citric Acid Cleaner

Date of issue: April 1, 2020

Replaces version of October 1, 2019

**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**

Shall not be classified as hazardous to the aquatic environment.

**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

May be disposed according to local, state and federal regulations.

Waste treatment of containers/packages

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.



**MICRO® AO7**  
Citric Acid Cleaner

Date of issue: April 1, 2020

Replaces version of October 1, 2019

**SECTION 14: Transport information**

- 14.1 **UN number** not assigned
- 14.2 **UN proper shipping name** not assigned
- 14.3 **Transport hazard class(es)** not assigned
- 14.4 **Packing group** not assigned
- 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.

**Right to Know Hazardous Substance List**

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
Ammonium Hydroxide	1336-21-6		CO

Legend

CO Corrosive

**MICRO® AO7**  
Citric Acid Cleaner

Date of issue: April 1, 2020

Replaces version of October 1, 2019

**Industry or sector specific available guidance(s)**

**NPCA-HMIS® III**

Hazardous Materials Identification System. American Coatings Association.

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

**NFPA® 704**

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	1	material that must be preheated before ignition can occur
Health	3	material that, under emergency conditions, can cause serious or permanent injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

**National inventories**

Country	National inventories	Status
EU	REACH Reg.	all ingredients are listed
US	TSCA	all ingredients are listed

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**

**Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
49 CFR US DOT	49 CFR U.S. Department of Transportation
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard

**MICRO® A07**  
Citric Acid Cleaner

Date of issue: April 1, 2020

Replaces version of October 1, 2019

Abbr.	Descriptions of used abbreviations
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
IMDG	International Maritime Dangerous Goods Code
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STOT SE	Specific target organ toxicity - single exposure
vPvB	Very Persistent and very Bioaccumulative

**Key literature references and sources for data**

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

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**

The classification is based on tested mixture.

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

Code	Text
H303	May be harmful if swallowed.
H313	May be harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

**MICRO® A07**  
Citric Acid Cleaner

Date of issue: April 1, 2020

Replaces version of October 1, 2019

**Disclaimer**

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