**Catalog Numbers**: 13049, 13049C 13066



Date of issue: January 1, 2021



MICRO® AO7
Citric Acid Cleaner

Distributed By: Ladd Research 3 Ewing Place

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Replaces version of April 1, 2020

# **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 All-purpose cleaner

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
e-Mail (competent person) tmcguckin@ipcol.com

# 1.3.1 Additional information

Manufacturer								
Name	Street	Postal code/city	Country	Telephone	e-Mail	Website		
International Products Corpor- ation		08016 Burlington	United States	1-609-386-8770	mkt@Ipcol.com	www.ipcol.com		

#### 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 cat- egory	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

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- 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.

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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.

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# **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 triethano- lamine		DNEL	4.1 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs., compds. with triethano- lamine		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 triethano- lamine		PNEC	0.268 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs., compds. with triethano- lamine		PNEC	0.027 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)

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# 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 triethano- lamine	68584-25-8	PNEC	7 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs., compds. with triethano- lamine	68584-25-8	PNEC	8.1 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sedi- ment	short-term (single instance)
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs., compds. with triethano- lamine	68584-25-8	PNEC	8.1 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)
Benzenesulfonic acid, 4- C10-13-sec-alkyl derivs., compds. with triethano- lamine	68584-25-8	PNEC	35 <sup>mg</sup> / <sub>kg</sub>	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.

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# 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 <sup>g</sup> / <sub>ml</sub> 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 mm²/ <sub>s</sub>
- Dynamic viscosity	10 cP

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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.

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# 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.

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# **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 danger-

ous 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

#### 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		СО

Legend

CO Corrosive

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<sup>1 &</sup>quot;1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act



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# **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	
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	
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	

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# 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.	

#### **Disclaimer**

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

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