Itaconix® ONZ™ 400

Revision number: HCS2012 1.4
Revision date: 18 March 2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product name	Itaconix® ONZ™ 400
Product CAS number	2220235-78-7
Other identification	Poly(itaconic acid-*co*-AMPS) sodium, zinc salt; Butanedioic acid, 2-methylene-, polymer with 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-1-propanesulfonic acid, sodium zinc salt

Relevant identified uses of the substance or mixture and uses advised against

Recommended use	Odor absorbing agent in cleaner formulations
Uses advised against	No information available

Details of the supplier of the safety datasheet

Company	Itaconix Corporation
Address	2 Marin Way, Stratham, NH 03885, USA
Telephone	+1 (603) 775-4400
E-mail	info@itaconix.com

Emergency Telephone Number

+1 (603) 775-4400 (Monday – Friday 09:00 – 17:00 US EST)

SECTION 2: Hazards identification

GHS Classification of the substance or mixture

Classification (29 CFR 1910.1200)

Acute (oral) toxicity	Category 4 - Harmful if swallowed
Acute aquatic toxicity	Category 2 - Toxic to aquatic life

GHS Label elements

Labelling (29 CFR 1910.1200)

Hazard pictograms

Signal word	**Warning**
Hazard statements	H302 Harmful if swallowed H401 Toxic to aquatic life
Precautionary statements	**P264 Wash hands thoroughly after handling** **P270 Do not eat, drink or smoke when using this product** **P273 Avoid release to the environment**

P301 + 31 7 If swallowed: Get medical help
P330 Rinse mouth
P501: Dispose of content/container to landfill according to local, state and federal regulations

Other hazards

The mixture contains <0.1% of unknown impurities

SECTION 3: Composition/information on ingredients

Mixtures

Chemical name	CAS number	Classification	Concentration
Poly(itaconic-*co*-AMPS, sodium, zinc salt)	2220235-78-7	Acute Oral 4	~29 wt.%
Potassium sorbate	24634-61-5	None at that concentration	0.5 wt.%

SECTION 4: First aid

Description of first aid measures

If inhaled — If breathed in, move person to fresh air. If respiratory symptoms develop, call a physician.

In case of skin contact — Flush skin with water.

In case of eye contact — Rinse immediately with plenty of water and seek medical advice.

If ingested — Do not induce vomiting, rinse mouth with water. Call a physician.

First aid responders shall wear standard personal protective equipment (safety glasses, medical examination gloves)

Most important symptoms and effects, both acute and delayed

Symptoms — None known

Indication of any immediate medical attention and special treatment needed

Treatment — Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Specific hazards during firefighting: decomposition products may be produced such as carbon oxides

Advice for firefighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

Personal precautions protective equipment and emergency procedures

Use personal protective equipment in accordance with good industrial practices (gloves, eye protection, labcoat/overalls, dust mask). Provide sufficient ventilation and control dust.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Contain/absorb with non-combustible absorbent material (e.g., sand, earth, vermiculite, chemical absorbent). Vacuum, or sweep up and shovel into suitable containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Normal measures as prevention against fire. Minimize exposure to dust in accordance with good industrial practices. Wear appropriate PPE. Wash hands thoroughly after handling. Do not eat, drink nor smoke in work areas. Wash hands before breaks and at the end of workday.

Conditions for safe storage

Keep container tightly closed. Containers which are opened must be carefully resealed to avoid contamination. Store in a cool place below 45C. No special restrictions on storage with other products.

SECTION 8: Exposure controls/personal protection

Control parameters

Contains no substances with occupational exposure limit values (No OSHA PEL and no ACGHIH TLV).

Exposure controls

Appropriate engineering controls: Ensure good ventilation. Arrange for eye wash (recommended). Handle in accordance with good industrial hygiene and safety practice.

Personal protective equipment: Eye and hand protection, laboratory lab coat or overalls are recommended.

Respiratory protection: In case of dust, wear dust mask (N95 or equivalent or better).
Eye/face protection: Safety glasses with side-shields conforming to NIOSH (US) or EN166 are recommended.
Hand protection: Handle with gloves. Nitrile gloves are suitable.
Skin protection: Laboratory coat or overalls are recommended.

Environmental exposure control: do not release material to drains, ground or surface water.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

a) Physical state	Liquid
b) Color	Yellow
c) Odor and odor threshold	No odor – no threshold
d) Melting point/freezing point	No data available
e) Boiling point	>100C
f) Flammability (solid, gas)	No data available
g) Upper/Lower flammability or explosive limits	No data available
h) Flash point	Not applicable
h) Evaporation Rate	No data available
i) Auto ignition temperature	No data available
j) Decomposition temperature	No data available
k) pH	5-6.6*
l) Kinematic Viscosity	<500 cpP
m) Solubility	Highly water soluble
n) Partition coefficient: n-octanol/water	No data available
o) Vapor pressure	No data available
p) Relative Density	1.2*
q) Vapor density	No data available
r) Particle characteristic	Not applicable

* Internal test protocol

Other safety information

Explosive properties	No ingredients have these properties
Oxidizing properties	No ingredients have these properties

SECTION 10: Stability and reactivity

Reactivity

No data available.

Chemical stability

Stable product under recommended storage and handling conditions.

Possibility of hazardous reactions

None known under normal processing.

Conditions to avoid

Heat above 90°C.

Incompatible materials

Avoid strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products may be formed under fire conditions such as carbon oxides and zinc oxide.

SECTION 11: Toxicological information

Information on toxicological effects

Some data available on mixture. Where not tested, data derived from or based on individual components are shown below:

(a) acute toxicity	Non-regulated in-vitro cytotoxicity test – Category 4 [300-2000 mg/L].
(b) skin corrosion/irritation	No skin irritation (OECD 439).
(c) serious eye damage/irritation	No data available.
(d) respiratory or skin sensitization	No data available.
(e) germ cell mutagenicity	No data available.
(f) carcinogenicity	No data available.
(g) reproductive toxicity	No data available.
(h) STOT-single exposure	No data available.

(i) STOT-repeated exposure	No data available.
(j) aspiration hazard	No data available.

Likely routes of exposure: Contact with skin and eyes.

Information on other hazards

None

SECTION 12: Ecological information

Toxicity

OECD 201: Algae growth EC50 = 1.1 mg/l (72 hr)
OECD 202: Daphnia growth EC50= 77 mg/l (48hr)

Persistence and degradability

OECD 302B: Inherently biodegradable. Reach 70% biodegradation within 10 days.

Bio accumulative potential

No data available.

Mobility in soil

No data available.

PBT and vPvB assessment

This substance/mixture contains no known components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Endocrine disrupting properties

None known.

Other adverse effects

None known.

SECTION 13: Disposal considerations

Waste treatment methods

Product: Treat as non-hazardous waste. Dispose to landfill. Avoid disposal to sewage. Dispose of in accordance with local, state and federal regulations.

Contaminated packaging: Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transportation information

UN number	Not regulated as a dangerous good
UN proper shipping name	Not regulated as a dangerous good
Transport hazard class(es)	Not regulated as a dangerous good
Packing group	Not regulated as a dangerous good
Environmental hazards	Not regulated as a dangerous good
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)	Not applicable
Special precautions for user	Not regulated as a dangerous good

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation for the mixture

The components of this product are reported in the following inventories:

EU-REACH	Polymer exemption. All the raw materials above 2 wt.% are registered by Itaconix or by its suppliers.
US-EPA	All chemical substances in this product are listed on the TSCA Inventory.

Chemical Safety Assessment

A Chemical Safety Assessment has been carried out on this mixture by the US-EPA.

Based on US-EPA's assessment, which includes analogue data, EPA has concluded that prolonged or repeated ingestion of this product may cause reproductive toxicity or immunotoxicity, and may damage organs such as the gastrointestinal tract. EPA has also concluded that chronic exposure to this product may be harmful to aquatic organisms.

This product is subject to a Significant New Use Rule [SNUR - TSCA section 12(b)] for any release of a manufacturing, processing, or use stream associated with any of this product into the waters of the United States exceeding a surface water concentration of 143 ppb.

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16: Other information

Revision number	HCS2012 1.4
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Supersedes Version	HCS2012 1.2

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Nature of revision	Updated aquatic toxicity data and classification. Updated format.

This SDS is based on HCS 2012 GHS 29 CFR 1910.1200

The above information is believed to be correct at the time of preparation but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.