SAFETY DATA SHEET
Itaconix® ZINADOR™ 22L

Revision Date: 07 June 2017 Revision Number: HCS 2012 3.0

1. IDENTIFICATION

Product name: Itaconix® ZINADOR™ 22L with 0.16% Acticide MBS

Product code: N/a

CAS-No.: 1662663-05-9

Other identification means:

Synonyms: Butanedioic acid, 2-methylene-, homopolymer, sodium, zinc salt, neutralised with potassium hydroxide (KOH); Poly(itaconic acid, sodium, zinc salt), neutralised with KOH; Poly(sodium, zinc itaconate), neutralised with KOH.

Recommended use: Odor control, odor reduction, odor neutralizer, air freshener

Uses advised against: No information available

Company Identification

Company: Itaconix Corporation

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2. HAZARD(S) IDENTIFICATION

Classification according to GHS and HCS 2012

Not classified as hazardous mixture

Labelling according to GHS and HCS 2012

Hazard pictograms (GHS-US) :	**None required**
Signal word (GHS-US) :	**None required**
Hazard statements (GHS-US) :	**None required**
Precautionary statements (GHS-US) :	**None required**

Other hazards

<0.1% of the mixture contains unknown impurities

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component (s): **Itaconix® ZINADOR™ 22L is an aqueous solution of poly(itaconic acid – sodium zinc salt), neutralized with KOH plus 0.16% Acticide MBS preservative.**

4. FIRST AID MEASURES

Description of First Aid measure

General advice: Consult a doctor if any symptoms develop. Show this safety data sheet to the doctor in attendance.

If inhaled: In case of serious inhalation, remove patient to fresh air, allow to rest and keep warm.

In case of prolonged skin contact: Remove contaminated clothing and shoes. Wash clothing and clean shoes before reuse. Wash off with soap and plenty of water.

In case of eye contact: If possible remove contact lenses. Flush immediately with plenty of water for at least 15 minutes, keeping eyelids open.

If swallowed: DO NOT induce vomiting. Rinse mouth out and then drink plenty of water.

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties of the product have not been thoroughly investigated

Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Special hazards arising from the substance or mixture

Carbon oxides

Precautions for fire-fighters

Wear self-contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective clothing to avoid contamination (gloves, eye protection, labcoat/overalls). In the event of burning product, avoid breathing vapors, mist or gas.

Methods and materials for containment and cleaning up

Do not let product enter drains. Contain/absorb with non-combustible absorbent material (eg, sand, earth, vermiculite, chemical absorbent) and place in suitable, closable container for safe disposal. For protective clothing see Section 8. For disposal see section 13

7. HANDLING AND STORAGE

Precautions for safe handling

Normal measures as prevention against fire. Minimize exposure to mist, vapor and spray in accordance with good industrial practices. Wash hands thoroughly after handling and wear appropriate PPE.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed to avoid contamination. Store in a cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

INGREDIENTS WITH WORKPLACE CONTROL PARAMETERS: Workplace control parameters are not available for this mixture

Exposure controls

Appropriate engineering controls: Ensure good ventilation. Arrange for eye wash (recommended). Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye and hand protection, laboratory lab coat or overalls. Always check applicability with your supplier of protective equipment.

Respiratory protection: Not required

Eye/face protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR §1910.133 or European Standard EN166.

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of 29 CFR §1910.138 or European Standard EN 374. Butyl rubber may be suitable. (Break-through times can vary depending on thickness, use and source. Change gloves regularly.)

Skin protection: Laboratory coat or overalls.

9. PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	Clear yellow liquid
b) Odor	No odor
c) Odor Threshold	Not applicable
d) pH	7.2-8.6*
e) Melting point/freezing point	No data available
f) Boiling point	No data available
g) Flash point	No data available
h) Evaporation Rate	No data available
i) Flammability (solid, gas)	Not applicable
j) Upper/Lower flammability or explosive limits	No data available

k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	~1.2g/l*
n) Water solubility	Highly water soluble
o) Partition coefficient: n-octanol/water	No data available
p) Auto ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	<100 cP*
s) Explosive properties	No ingredients have these properties
t) Oxidizing properties	No ingredients have these properties

* Internal test protocol

10. STABILITY AND REACTIVITY

Reactivity

Stable product under recommended storage and handling conditions.

Chemical stability

Stable product under recommended storage and handling conditions

Possibility of hazardous reactions

Stable product.

Conditions to avoid

Avoid temperatures greater than 90°C/195°F.

Incompatible materials

Avoid strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products may be formed under fire conditions e.g. Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Some data is available on the mixture – where not available, data based on individual components is shown below:

(a) acute toxicity	Based on available data, the classification criteria are not met.
(b) skin corrosion/irritation	Non irritant (OECD 439)
(c) serious eye damage/irritation	Non irritant (OECD 492)
(d) respiratory or skin sensitization	Based on available data, the classification criteria are not met.
(e) germ cell mutagenicity	Non mutagenic (OECD 471)
(f) carcinogenicity	Based on available data, the classification criteria are not met.
(g) reproductive toxicity	Based on available data, the classification criteria are not met.
(h) STOT-single exposure	Based on available data, the classification criteria are not met.
(i) STOT-repeated exposure	Based on available data, the classification criteria are not met.
(j) aspiration hazard	Based on available data, the classification criteria are not met.

Likely routes of exposure: Contact with skin and eyes or by inhalation of spray.

Potential health effects: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Symptoms related to the physical, chemical and toxicological characteristics: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Delayed and immediate effects as well as chronic effects from short and long-term exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information: None

12. ECOLOGICAL INFORMATION

Ecotoxicity

No classification for acute toxicity required.

Algae: E_rC_{50} (0-72hrs) 24.65mg/l
Crustacea: EC50 (48hr) >100mg/l NOEC (48hr) 100mg/l

Persistence and degradability

No data available.

Bio accumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects

None known. No ingredients classified as hazardous for the environment present at or above 0.1%. Calculations according to the precepts of GHS show this product not to be classified as hazardous to aquatic life.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product
Dispose of in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements. Treat as non-hazardous waste. Burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable product to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Avoid release to the environment.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

Not classified as dangerous for transport under international or DOT regulations.

UN number None

UN proper shipping name None

Transport hazard class(es) None

Packing group None

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Environmental hazards None

Special precautions for user None

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

15. REGULATORY INFORMATION

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

All components of Itaconix® ZINADOR™ 22L are listed either on the DSL (Canada) or NDSL and complies with TSCA (as an odor neutralizer with a SNUR for any other uses).

16. OTHER INFORMATION

Hazardous Material Information (HMIS)		National Fire Protection Association (NFPA)	
Health	0	0	Health
Flammability	0	0	Fire
Physical	0	0	Instability
Personal Protection	B		NA

Health	4	Deadly	3	Extreme Danger	2	Dangerous	1	Slight hazard	0 No hazard
Flammability/Fire	4	< 73 °F	3	< 100 °F	2	< 200 °F	1	>200 °F	0 Will not burn
Physical/Instability	4	- May detonate	3	Explosive	2	Unstable	1	Normally stable	0 Stable

Version number	HCS 2012 3.0
Date prepared	07 June 2017
Supersedes Version	HCS 2012 2.2
Nature of revision	Inclusion of toxicity and eco toxicity information

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 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.

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