

## SECTION 1.

### IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifiers:

**Product name:** Itaconix® ZINADOR™ 22L

**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.

#### 1.2 Relevant identified uses for the mixture and uses advised against :

**Recommended use:** Odour control, odour reduction, odour neutralizer, air freshener

**Uses advised against:** No information available

#### 1.3 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

#### 1.4 Emergency Telephone Number

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

## SECTION 2.

### HAZARDS IDENTIFICATION

#### 2.1 Classification of the mixture

Classification according to CLP Regulation (EC) No. 1272/2008

**Not classified as hazardous mixture according to CLP Regulation (EC) No. 1272/2008**

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 CLP

##### **Supplementary Information**

**EUH208 – Contains (5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one) at 0.0013%. May produce an allergic reaction**

#### 2.3 Other hazards

**<0.1% of the mixture contains unknown impurities**

**SECTION 3.**  
**COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2 Mixtures**

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

Under CLP EC1272/2008

CAS-No.	EC-No	Index-No	Classification	Concentration
<b>Mixture, containing 5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1)</b>				
55965-84-9	N/A	613-167-00-5	Acute Tox. 3; Acute Tox. 3; Acute Tox. 3; Skin Corr. 1B; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1 H331; H311; H301; H314; H317; H400; H410 Special Concentration Limit for H317 $\geq$ 0.0015%	0.0013%

**SECTION 4.**  
**FIRST AID MEASURES**

**4.1 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.

**4.2 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

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

No data available

**SECTION 5.  
FIRE FIGHTING MEASURES**

**5.1 Extinguishing media**

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

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

Carbon oxides

**5.3 Precautions for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**5.4 Further information**

No data available

**SECTION 6.  
ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions**

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

**6.2 Environmental precautions**

Do not let product enter drains

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

Contain/absorb with non-combustible absorbent material (eg, sand, earth, vermiculite, chemical absorbent) and place in suitable, closable container for safe disposal.

**6.4 Reference to other sections**

For protective clothing see Section 8. For disposal see section 13

**SECTION 7.  
HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

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

### **7.2 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.

### **7.3 Specific end uses**

Odour control, odour reduction, odour neutralizer, air freshener

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 Control parameters**

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

**DERIVED NO EFFECT LEVEL (DNEL) FOR SUBSTANCE:** Workplace control parameters are not available for this substance/mixture

**PREDICTED NO EFFECT CONCENTRATIONS (PNEC):** Workplace control parameters are not available for this substance/mixture

**Monitoring procedures:** None specified

### **8.2 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:** Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**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 EU Directive 89/686/EEC and the standard EN 374 derived from it. 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.

**SECTION 9.**  
**PHYSICAL AND CHEMICAL PROPERTIES**

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

a) Appearance	Clear yellow liquid
b) Odour	No odour
c) Odour Threshold	Not applicable
d) pH	7.5-8.5*
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) Vapour pressure	No data available
l) Vapour 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) Oxidising properties	No ingredients have these properties

\* Internal test protocol

**9.2 Other safety information**

None

**SECTION 10.**  
**STABILITY AND REACTIVITY**

**10.1 Reactivity**

Stable product under recommended storage and handling conditions.

**10.2 Chemical stability**

Stable product under recommended storage and handling conditions

**10.3 Possibility of hazardous reactions**

Avoid temperatures greater than 90°C.

**10.5 Incompatible materials**

Avoid strong oxidising agents.

**10.6 Hazardous decomposition products**

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

**SECTION 11.  
TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

No data available on mixture. Data based on individual components shown below:

(a) acute toxicity	Based on available data, the classification criteria are not met.
(b) skin corrosion/irritation	Based on available data, the classification criteria are not met.
(c) serious eye damage/irritation	Based on available data, the classification criteria are not met.
(d) respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
(e) germ cell mutagenicity	Based on available data, the classification criteria are not met.
(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

**SECTION 12**  
**ECOLOGICAL INFORMATION**

**No data available on the product.**

**12.1 Toxicity**

No ingredients classified as hazardous for the environment.

**12.2 Persistence and degradability**

No data available.

**12.3 Bio accumulative potential**

No data available.

**12.4 Mobility in soil**

No data available.

**12.5 PBT and vPvB assessment**

No data available.

**12.6 Other adverse effects**

None known. Calculations according to the precepts of GHS and the Classification, Labelling and Packaging Regulation (EC1272/2008 as amended) show this product not to be classified as hazardous to aquatic life.

**SECTION 13.**  
**DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Product**

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.

**SECTION 14.  
TRANSPORT INFORMATION**

**Not classified as dangerous for transport.**

**14.1. UN number**

None

**14.2. UN proper shipping name**

None

**14.3. Transport hazard class(es)**

None

**14.4. Packing group**

None

**14.5. Environmental hazards**

None

**14.6. Special precautions for user**

None

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15.  
REGULATORY INFORMATION**

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

UK legislation:

Control of Substances Hazardous to Health Regulations 2002

Environmental Protection Act 1990

Hazardous Waste Regulations 2005

All as amended from time to time.

Itaconix® ZINADOR™ 22L is on the DSL (Canada) and complies with TSCA (as an odor neutralizer with a SNUR for any other uses).

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment has not been carried out on this mixture



**SECTION 16.**  
**OTHER INFORMATION**

Version number	EU 1.0
Date prepared	07 November 2016
Supersedes Version	1.0.5
Nature of revision	Compliance with EU SDS EU Regulation 1907/2006
This SDS is based on EU Regulation 1907/2006 as amended by Regulations 453/2010 and 2015/830	

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.

End of document.

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