

SECTION 1.
IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers:

Product name: Itaconix® TSI™ 322
Product code: N/a
CAS-No.: 1052620-22-0
Other identification means:
Synonyms: Poly (itaconic co AMPS, sodium salt)

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

Recommended use: Scale inhibitor for use in detergent and cleaner formulations
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 according to CLP Regulation (EC) No. 1272/2008

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 CLP
The product does not need to be labelled in accordance with EC Regulations or respective national laws

2.3 Other hazards

<0.1% of the mixture contains unknown impurities

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

3.2 Mixtures

Component (s): **Itaconix® TSI™ 322 - Poly (itaconic co AMPS, sodium salt)**

Under CLP EC1272/2008 - Composition information not required as mixture is not classified as hazardous.

**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 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

Calcium binder for use in detergent and cleaner formulations

SECTION 8.
EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

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

DERIVED NO EFFECT LEVEL (DNEL) FOR MIXTURE: Workplace control parameters are not available for this mixture.

PREDICTED NO EFFECT CONCENTRATIONS (PNEC): Workplace control parameters are not available for this 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	Off-white, granular solid
b) Odour	No odour
c) Odour Threshold	Not applicable
d) pH	5.2 (10% aq solution)*
e) Melting point/freezing point	No data available

Issue Date: 03 July 2019

Revision Number: EU 1.0

f) Boiling point	No data available
g) Flash point	Not applicable
h) Evaporation Rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/Lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Specific gravity	Bulk 0.7g/cm ³ *
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	Not applicable
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

No data available.

10.2 Chemical stability

Stable product under recommended storage and handling conditions

10.3 Possibility of hazardous reactions

None under normal processing

10.4 Conditions to avoid

Heat, flames.

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 derived from or 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 mixture.

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

Issue Date: 03 July 2019

Revision Number: EU 1.0

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 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.

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	03 July 2019
Supersedes Version	N/a
Nature of revision	N/a

This SDS is a non-mandated SDS and 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.

Number of pages = 8