

SAFETY DATA SHEET

Itaconix® CHT 121

Revision Date: March 25, 2016



Revision Number: 1.1.2

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier:

Product name Itaconix® CHT™ 121, Itaconix® CHT™

CAS-No. 1803423-39-3

Other identification means: Butanedioic acid, 2-methylene-, telomer with phosphinic acid and sodium 4-ethenylbenzenesulfonate (1:1), sodium salt

Synonyms Poly(itaconic co styrene sulfonic acid, sodium salt)

Use of substance/preparation and restrictions:

Recommended Use: Calcium binder for use in detergent and cleaner formulations

Uses advised against: No information available

SDS supplier details:

Company name: Itaconix Corporation

Company Identification: 2 Marin Way,
Stratham, NH 03885
603-775-4400

Company Emergency Telephone Number Emergency Phone: 1-603-775-4400

2. HAZARDS IDENTIFICATION

Classification:

This product is not considered hazardous under the 2012 OSHA Hazard Communication Standard (29 CER 1910.1200), EC No 1272/2008, and WHMIS 2015.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	% by Wt
Poly (itaconic co styrene sulfonic acid, sodium salt)	1803423-39-3	83%

4. FIRST AID MEASURES

First aid measures:

Eye contact: Remove contacts, if present and easy to do. Flush with water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

SAFETY DATA SHEET

Itaconix® CHT 121

Revision Date: March 25, 2016



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Skin contact:	Wash exposed skin with water. Remove any contaminated clothing and wash before reuse. If symptoms persist consult physician.
Inhalation:	Remove to fresh air. If symptoms persist consult physician.
Ingestion:	Wash out mouth with water. Drink plenty of water. Do not induce vomiting unless directed by medical personal. Never give anything to an unconscious person. Get medical aid.
Notes to physician:	Treatment based on judgment of attending physician.
Most important symptoms and effects, both acute and delayed:	None known
Indication of any immediate medical attention and special treatment needed:	None known

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water, alcohol-resistant foam, dry chemical, or carbon dioxide; as appropriate for surrounding materials.
Unsuitable extinguishing media	None known
Specific exposure hazards	None known
Hazardous combustion products	None known
Explosion data:	
Sensitivity to mechanical impact:	Not sensitive to mechanical impact.
Sensitivity to static discharge:	Not sensitive to static discharge.
Special safety equipment:	In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

General measures: Use personal protective equipment. Ensure adequate ventilation. See Heading 8. Exposure controls and personal protection.

Environmental precautions:

Environmental precautions: Prevent entry to sewers and public waters.

Methods and material for containment and cleaning up:

Method for containment: Contain any spills to prevent migration and entry into sewers or streams.

SAFETY DATA SHEET

Itaconix® CHT 121

Revision Date: March 25, 2016



Revision Number: 1.1.2

Methods for cleaning up: Use filtered vacuum cleaner, broom, or shovel to sweep, then dispose of properly.

Procedures for non-emergency personnel:

Protective equipment: Use appropriate personal protection equipment (PPE).
Emergency procedures: Evacuate unnecessary personnel.

Procedures for emergency personnel:

Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

Reference to other sections: See Heading 8. Exposure controls and personal protection.

7. HANDLING AND STORAGE

Precautions for safe handling:

Handling: Wash thoroughly after handling. Wear protective gloves, clothing/eye protection/face protection. Minimize exposure to dust in accordance with good industrial hygiene and safety practices. If dust present use approved dust mask. Wear appropriate personal protective equipment.

Information about fire and explosion protection: Normal measures for preventive fire protection.

Conditions for safe storage, including any incompatibilities:

Requirements to be met by storerooms and receptacles: Store in original container. Store in a cool, dry location. Protect from humidity and water.

Information about storage in one common storage facility: No further information.

Further information about storage conditions: No further information.

Specific end use(s): Store in cool, dry area. Always keep container closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Exposure guidelines Minimize exposure to dust in accordance with good industrial hygiene and safety practices. If dust present use approved dust mask.

SAFETY DATA SHEET

Itaconix® CHT 121

Revision Date: March 25, 2016



Revision Number: 1.1.2

Appropriate engineering controls:

Engineering measures Showers. Eyewash stations.

Individual protection measures:

Eye protection: Safety goggles.
Skin protection: Impervious clothes.
Hand protection: Impervious gloves.
Respiratory protection: Use dust mask.
Working hygiene: Take usual precautions when handling. Workers should wash hands before eating, drinking or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical State	Solid granular	Odour	Odourless
Colour	Off-white	Odour Threshold	No information available

<u>Property</u>	<u>Values</u>
pH 10 % solution	5.2
Melting/freezing point	Not applicable
Boiling point/range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not flammable
Flammability limit in air:	
Upper limit	No data available
Lower limit	No data available
Vapour pressure	No data available
Vapour density	No data available
Specific gravity	Bulk 0.7g/cm ³
Water solubility	Soluble in water
Solubility other solvents	No data available
Partition coefficient:	
n-octanol/water	No data available
Autoignition temperature	No data available
Decomposition	No data available
Temperature	
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Explosive properties	No data available

SAFETY DATA SHEET

Itaconix® CHT 121

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Oxidizing properties No data available

Other properties:

Softening point No data available

VOC content % No data available

Particle size No data available

Particle size distribution No data available

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions
Possibility of hazardous reactions:	None under normal processing
Hazardous polymerization:	Does not occur
Conditions to avoid:	None
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	None
Thermal decomposition / conditions to be avoided:	Stable under normal conditions

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute effects (acute toxicity, irritation and corrosively)

No known acute effects

Acute toxicity

LD50 (oral)	>2000 mg/kg
LD50 (dermal)	>0.056 mg/cm ²
LD50 (inhalation)	No data available

Specific symptoms in animal tests

After swallowing	None
After skin contact	None
After inhalation	No data available

Irritation and corrosive effects

Irritant effects on skin	No effect
Irritant effects on eyes	No effect

Sensitization

After skin contact	No effect
After inhalation	No data available
Remarks	None

Delayed/immediate/chronic Effects from short and long term exposure:

Sensitization No data available

SAFETY DATA SHEET

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Mutagenic effects	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT- single exposure	None known
STOT repeated exposure	None known
Chronic toxicity	None known
Target organ effects	None Known
Numerical measures of toxicity (based on GHS Chapter 3.1)	Not applicable

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic toxicity

Selenastrum capricornutum with calcium

IC50 = 153 mg/L- data on chemical analog

NOEC= 40 mg/L - data on chemical analog

Daphnia magna

EC50 > 1000 mg/L- data on chemical analog

NOEC = 1000 mg/L - data on chemical analog

Persistence and degradability:

Biodegradable - data on chemical analog

Bioaccumulative potential:

No information available

Mobility in soil:

No information available

Other adverse effects:

No information available

Other information:

Avoid release to the environment

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste. If chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Disposal methods

Contaminated packaging:

Dispose of contents/containers in accordance with local regulations.

California Hazardous Waste Codes

Not available.

Ecology – waste materials:

Avoid release to the environment.

14. TRANSPORT INFORMATION

DOT:

Proper Shipping Name

None

Hazard Class

Non-hazardous for transport

TDG

Not regulated as a dangerous good

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<u>MEX</u>	Not regulated as a dangerous good
<u>ICAO</u>	Not regulated as a dangerous good
<u>IATA:</u>	
Proper Shipping Name	None
Hazard Class	Non-hazardous for air transport
<u>IMDG/IMO:</u>	
Hazard class	Non-hazardous for transport
<u>RID</u>	Not regulated as a dangerous good
<u>ADR</u>	Not regulated as a dangerous good
<u>ADN</u>	Not regulated as a dangerous good

15. REGULATORY INFORMATION

International Inventories:

REACH Complies, polymer exempt

REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals

Canadian Regulations:

DSL Complies. Approved for listing on the DSL & NDSL

DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List.

US Federal Regulations:

TSCA Complies. Approved for listing on TSCA inventory

TSCA – United States Toxic Substances Control Act Section 8(b) Inventory

US State Regulations:

California Proposition 65

This product does not contain any Proposition 65 Chemicals.

16. OTHER INFORMATION

Issuing Date: 5 November 2015

Revision Date: 25 March 2016

Revision Note: Regulatory status update.

Disclaimer:

The manufacturer warrants that this product conforms to its standard specification when used according to direction. To the best of our knowledge the information contained herein is accurate. However we do not assume accuracy or completeness of the information contained herein.

Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

End of Safety Data Sheet