

SAFETY DATA SHEET

Itaconix® DSP 2K™

Revision Date: March 3, 2016



Revision Number: 1.3.2

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

Product identifier:

Product name

Itaconix® DSP 2K™, Itaconix® DSP 2K™ G
Itaconix® DSP 2K™ Q, Itaconix® DSP 2K™ U
26099-89-8

CAS-No.

Other identification means:

Synonyms

Poly(itaconic acid, sodium salt) Poly(sodium itaconate),
Butanedioic acid, 2-methylene-, homopolymer, sodium
salt

Use of substance/preparation and restrictions:

Recommended Use:

Water conditioning and 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 CFR 1910.1200), EC No 1272/2008, and WHMIS 2015.

GHS label elements, including precautionary statement:

Emergency overview: None

Label elements

GHS-US labeling

Hazard pictograms (GHS-US/ CDN/ EU): No pictogram

Signal word (GHS-US/ CDN/ EU): None

Hazard statements (GHS-US/ CDN/ EU): None

Precautionary Statements (GHS-US/ CDN/ EU): None

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	% by Wt
Poly (itaconic acid, sodium salt)	26099-89-8	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.

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.

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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.

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: 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.

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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical State	Solid granular	Odour	Odourless
Colour	Off-white/ light yellow	Odour Threshold	Not applicable

<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 Temperature	No data available
Kinematic viscosity	Not applicable
Dynamic viscosity	Not applicable
Explosive properties	No data available
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

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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)

NOEL > 2000 mg/kg

LD50 (dermal)

NOEL > 0.056 mg/cm²

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 anticipated

Irritant effects on eyes

No effect

Sensitization

After skin contact

No data available

After inhalation

No data available

Remarks

None

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

Type of test

Chronic dermal toxicity

Route of exposure

Skin, daily repeated exposure

Species observed

Rodent - rat

Dose/Duration

0.056 mg/cm²/day for 21 days

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

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12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Aquatic toxicity	Daphnia magna 48-hr NOEL>1000mg/L Selenastrum capricornutum 96hrs IC50=153 mg/L
Persistence and degradability:	OECD 301A, readily biodegradable
Bioaccumulative potential:	No information available
Mobility in soil:	No information available
Other adverse effects:	No information available
Other information:	Avoid release to the environment
Biodegradation	Readily biodegradable
Method	OECD 301 A
Dissolved organic carbon (DOC)	335 mg/g
Chemical oxygen demand (COD)	537 mg/g

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: California Hazardous Waste Codes

Dispose of contents/containers in accordance with local regulations.

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

MEX

Not regulated as a dangerous good

ICAO

Not regulated as a dangerous good

IATA:

Proper Shipping Name

None

Hazard Class

Non-hazardous for air transport

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IMDG/IMO:

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 All components are listed either on the DSL or NDSL

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

US Federal Regulations:

TSCA Complies

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: 15 June 2015

Revision Date: 03 March 2016

Revision Note: Changes to Section 11: Toxicology and Section 2: Hazard Identification

Terms and Definitions:

STOT – Specific Target Organ Toxicity

DOT – United States Department of Transit

TDG – Canadian Transportation of Dangerous Goods

MEX – Mexican Regulation for the Land Transport of Hazardous Materials and Wastes

ICAO – International Civil Aviation Organization

IATA – International Air Transport Association

IMDG/IMO – International Maritime Dangerous Goods Code/International Maritime Organization

RID – European regulations about international railway transport of hazardous goods

ADR – European agreement about international transport of hazardous goods by road

ADN – European provisions concerning the international carriage of dangerous goods by inland waterway

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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