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

**CAS-No.** 26099-89-8

Other identification means:

Poly(itaconic acid, sodium salt) Poly(sodium itaconate),

**Synonyms** 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.

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#### 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.

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 StateSolid granularOdourOdourlessColourOff-white/ lightOdour ThresholdNot applicable

yellow

<u>Property</u> <u>Values</u>

**pH 10 % solution** 5.2

Melting/freezing pointNot applicableBoiling point/rangeNot applicableFlash pointNot applicableEvaporation rateNot applicableFlammability ( solid, gas)Not flammable

Flammability limit in air:

Upper limit

Lower limit

Vapour pressure

Vapour density

Specific gravity

Water solubility

Solubility other solvents

No data available
No data available
Bulk 0.7g/cm3
Soluble in water
No data available

**Partition coefficient:** 

n-octanol/waterAutoignition temperatureDecompositionNo data availableNo data available

**Temperature** 

Kinematic viscosity

Dynamic viscosity

Explosive properties

Oxidizing properties

Not applicable

No data available

No data available

Other properties:

Softening pointNo data availableVOC content %No data availableParticle sizeNo data availableParticle size distributionNo 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**Stable under normal conditions

avoided:

## 11. TOXICOLOGICAL INFORMATION

## Information on toxicological effects:

## Acute effects (acute toxicity, irritation and corrosively)

No known acute effects

**Acute toxicity** 

 $\begin{array}{lll} \text{LD50 (oral)} & \text{NOEL} > 2000 \text{ mg/kg} \\ \text{LD50 (dermal)} & \text{NOEL} > 0.056 \text{ mg/cm2} \\ \text{LD50 (inhalation)} & \text{No data available} \\ \end{array}$ 

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

After inhalation

No data available

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 effectsNo data availableCarcinogenicityNo data availableReproductive toxicityNo data availableSTOT- single exposureNone knownSTOT repeated exposureNone knownChronic toxicityNone 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 availableMobility in soil:No information availableOther 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

**Disposal methods** 

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 stare, regional, or

Dispose of contents/containers in accordance with local regulations.

local regulations for additional requirements.

**Contaminated packaging:** 

**California Hazardous Waste** 

**Codes** 

Not available.

**Ecology – waste materials:** Avoid release to the environment.

## 14. TRANPORT INFORMATION

DOT:

Proper Shipping Name None

Hazard ClassNon-hazardous for transportTDGNot regulated as a dangerous goodMEXNot regulated as a dangerous goodICAONot 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

RIDNot regulated as a dangerous goodADRNot regulated as a dangerous goodADNNot 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 Section11: 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**