



## **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
10	Health Hazard  Fire Hazard  1	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification				Page Number: 1	
Common Name/ Trade Name	Itaconic Acid		Catalog Number(s).	l2130	
			CAS#	97-65-4	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		RTECS	EJ982000	
			TSCA	TSCA 8(b) inventory: Itaconic Acid	
Commercial Name(s)	Not available.		CI#	Not available.	
Synonym	Not available.		-	MEDCENCY	
Chemical Name	Butanedioic acid, methylene-		IN CASE OF E	24hr) 800-424-9300	
Chemical Family	Not available.		CALL (310) 516	6-8000	
Chemical Formula	C5-H6-O4				
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248				

Section 2.Composition and Information on Ingredients  Exposure Limits						
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Itaconic Acid		97-65-4				100
Toxicological Data on Ingredients	Not applicable.					

Section 3. Hazards Identification		
Potential Acute Health Effects	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.	
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.	

Section 4. First Aid Measures		
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention if irritation occurs.	
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.	
Serious Skin Contact	Not available.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
Serious Inhalation	Not available.	
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.	
<b>Serious Ingestion</b>	Not available.	

Section 5. Fire and Explosion Data			
Flammability of the Product	May be combustible at high temperature.		
<b>Auto-Ignition Temperature</b>	Not available.		
<b>Flash Points</b>	Not available.		
Flammable Limits	Not available.		
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO2).		
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of heat.		
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.		
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.		
Special Remarks on Fire Hazards	Material in powder form, capable of creating a dust explosion. As with most organic solids, fire is possible at elevated temperatures		
Special Remarks on Explosion Hazards	Not available.		

Section 6. Accidental Release Measures		
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.	
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.	

Section 7. Handling and Storage		
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents, reducing agents, alkalis.	
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.	

Section 8. Exposure Controls/Personal Protection		
<b>Engineering Controls</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.	
<b>Personal Protection</b>	Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.	
<b>Exposure Limits</b>	Not available.	

Section 9. Physical	and Chemical Properties		
Physical state and appearance	Solid. (Crystalline powder.)	Odor	Characteristic.
Molecular Weight	130.1 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	White.
<b>Boiling Point</b>	268℃ (514.4℉) (sublimes)		
Melting Point	162℃ (323.6℉) - 172 C. with decompositi	ion.	
Critical Temperature	Not available.		
Specific Gravity	1.57 (Water = 1)		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
<b>Dispersion Properties</b>	See solubility in water, acetone.		
Solubility	Soluble in acetone. Very slightly soluble in cold water. Solubility in Water: 1 g/12 ml water. Solubility in alcohol: 1 g/5 ml alcohol. Very slightly soluble in Benzene, Chlorof	orm, Carbon Disulfide,	Petroleum Ether.

Section 10. Stability and Reactivity Data		
The product is stable.		
Not available.		
Excess heat, incompatible materials		
Reactive with oxidizing agents, reducing agents, alkalis.		
Not available.		
Not available.		
Not available.		
Will not occur.		

Section 11. Toxicological Information		
Routes of Entry	Inhalation. Ingestion.	
<b>Toxicity to Animals</b>	LD50: Not available. LC50: Not available.	
<b>Chronic Effects on Humans</b>	Not available.	
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.	
Special Remarks on Toxicity to Animals	Not available.	
Special Remarks on Chronic Effects on Humans	Not available.	
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects Skin: May cause skin irritation. Eyes May cause eye irritation. Inhalation: May cause respiratory tract irritation. Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. Expected to be a low hazard.	

Section 12. Ecological Information		
Ecotoxicity	Not available.	
BOD5 and COD	Not available.	
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.	
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.	
Special Remarks on the Products of Biodegradation	Not available.	

#### Section 13. Disposal Considerations

Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental control

regulations.

### Section 14. Transport Information

DOT Classification Not a DOT controlled material (United States).

Identification Not applicable.

Special Provisions for Transport Not applicable.

DOT (Pictograms)

Warnings



#### Section 15. Other Regulatory Information and Pictograms

Federal and State TSCA 8(b) inventory: Itaconic Acid Regulations

Cantorma California prop. 65. This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.

California prop. 65: This product contains the following ingredients for which the State of California has found to

cause birth defects which would require a warning under the statute: No products were found.

Other Regulations EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No.

202-599-6).

Canada: Listed on Canadian Domestic Substance List (DSL).

China: Listed on National Inventory.

Japan: Listed on National Inventory (ENCS).

Korea: Listed on National Inventory (KECI).

Philippines: Listed on National Inventory (PICCS).

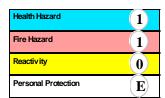
Australia: Listed on AICS.

Other Classifications WHMIS (Canada) Not controlled under WHMIS (Canada).

DSCL (EEC) This product is not classified according Not applicable.

to the EU regulations.

HMIS (U.S.A.)



National Fire Protection Association (U.S.A.)

Health



WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



#### Continued on Next Page

Itaconic Acid	Page Number: 6
TDG(Canada) (Pictograms)	

ADR (Europe) (Pictograms)



### **Protective Equipment**



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.



Safety glasses.

# Section 16. Other Information MSDS Code 10023

**References** Not available.

Other Special Major Llege

Major Uses Copolymerizations, resins, plasticizers, lube oil additives, chemial intermediate

Validated by Sonia Owen on 11/5/2008. Verified by Sonia Owen.

CALL (310) 516-8000

#### **Notice to Reader**

Considerations

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

Printed 11/10/2008.