



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
	Health Hazard 1 Fire Hazard 1	
	Reactivity 0	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	trans-Aconitic Acid	Catalog Number(s).	A2338	
		CAS#	4023-65-8	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	Not available.	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: trans-Aconitic Acid	
Commercial Name(s)	Not available.	CI#	Not available.	
Synonym	Propene-trans-1,2,3-tricarboxylic acid; trans-1,2,3-Propenetricarboxylic acid	IN CASE OF EMERGENCY		
Chemical Name	Not available.	CHEMTREC	(24hr) 800-424-9300	
Chemical Family	Not available.	CALL (310) 5 ⁻	16-8000	
Chemical Formula	C6-H6-O6			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.Composition	and Information	on Ingredients	5			
				Exposure Limits		
Name		CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) {trans-}Aconitic Acid		4023-65-8				100
Toxicological Data on Ingredients	trans-Aconitic Acid LD50: Not available. LC50: Not available.		1	1		1
Section 3. Hazards lo	lentification					
Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant). Slightly hazardous in case of ingestion, .					
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

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. Get medical attention.	
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.	
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.	
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
Not available.	
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.	
Not available.	

Section 5. Fire and E	Section 5. Fire and Explosion Data		
Flammability of the Product	May be combustible at high temperature.		
Auto-Ignition Temperature	Not available.		
Flash Points	Not available.		
Flammable Limits	Not available.		
Products of Combustion	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	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

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Preca	utions
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Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, alkalis.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	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.	
Personal Protection	Splash goggles. 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.	
Exposure Limits	Not available.	

Section 9. Physical and Chemical Properties

Physical state and appearance	Solid.	Odor	Not available.
		Taste	Not available.
Molecular Weight	174.11 g/mole	Color	Beige. (Light.)
pH (1% soln/water)	Not available.	Color	Dege. (Light.)
Boiling Point	Not available.		
Melting Point	187°C (368.6°F) - 191 C.		
Critical Temperature	Not available.		
Specific Gravity	Not available.		
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.		
Dispersion Properties	See solubility in water.		
Solubility	Soluble in cold water. Solubility in Water: 500 g/l @ 25 deg. C		

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Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Excess heat, incompatible materials
Incompatibility with various substances	Reactive with oxidizing agents, alkalis.

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Corrosivity	Not available.
Special Remarks on Reactivity	Not available.
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.
Section 11. Toxicol	ogical Information
Routes of Entry	Inhalation. Ingestion.
Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of inhalation (lung irritant). Slightly hazardous in case of ingestion, .
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: Causes skin irritation. Eyes: Causes eye irritation. Inhalation: Causes respiratory tract irritation. Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. The toxicological properties of this substance have not been fully investigated.
Section 12. Ecologie	cal 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 ma 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. Disposa	I Considerations
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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Section 14. Transport Information		
DOT Classification	Not a DOT controlled material (United States).	
Identification	Not applicable.	
Special Provisions for Transport	Not applicable.	
DOT (Pictograms)		

Section 15. Other Regulatory Information and Pictograms						
Federal and State Regulations	TSCA 8(b) inventory: trans-Aconitic Acid					
California Proposition 65 Warnings	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.					
Other Classifications	WHMIS (Canada) Not available by the Service du repertoire toxicologique.					
	DSCL (EEC)	R36/37/38- Irritating to eyes, respiratory system and skin.		S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37- Wear suitable protective clothing and gloves.		
HMIS (U.S.A.)	Health Hazard Fire Hazard Reactivity Personal Protection	1 1 0 E	National Fire Protection Association (U.S.A.)	Health	Flammability 0 Reactivity Specific hazard	
WHMIS (Canada) (Pictograms)						
DSCL (Europe) (Pictograms)						
TDG (Canada) (Pictograms)						
ADR (Europe) (Pictograms)						
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Protective Equipment	Gloves.	
	Lab coat.	
	Dust respirator. Be sure to use an approved/certified respirator or equivalent.	
	Splash goggles.	

Section 16. Other Information MSDS Code A0062 References Not available. Other Special Considerations Not available. Validated by Sonia Owen on 3/9/2007. Verified by Sonia Owen. Printed 3/9/2007. CALL (310) 516-8000 Considerations

Notice to Reader

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.