



Material Safety Data Sheet

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
	The health risks of this compound have not been fully determined. Exposure may cause irritation of the skin, eyes, and respiratory system.	

Section I. C.	hemical Product and Company Identifica	ation		
Chemical Name	Djenkolic Acid			
Catalog Number	D0961	Supplier	TCI America 9211 N. Harborgate St.	
Synonym	L-Cysteine, S,S'-methylenebis- (CA INDEX NAME); S,S'-Methylenedi-L-cysteine		Portland OR 1-800-423-8616	
Chemical Formula	$C_7H_{14}N_2O_4S_2$			
CAS Number	498-59-9	In case of Emergency Call	Chemtrec® (800) 424-9300 (U.S.) (703) 527-3887 (International)	
		4		

Section II.	Composition a	nd Informa	tion on In	gredients	
Chemie	cal Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Djenkolic Acid		498-59-9	Min. 98.0 (HPLC, T)	Not available.	Not available.

Section III.	Hazards Identification
Acute Health Effects	No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.
Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

Section IV.	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. Get medical attention.	
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.	
Inhalation	If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt of waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do no improve.	
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.	

Section V.	Fire and Explosion Data			
Flammability	May be combustible at high temperature.	Auto-Ignition	Not available.	
Flash Points	Not available.	Flammable Limits	Not available.	
Combustion Products	These products are toxic carbon oxides (CO,	These products are toxic carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂), sulfur oxides (SO ₂ , SO ₃).		
Fire Hazards	Not available.			
Explosion Hazards		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. Consult with local fire authorities before attem		operations.	

D0961 Djenkolic Acid Page 2 Section VI. Accidental Release Measures Spill Cleanup Use a shovel to put the material into a convenient waste disposal container. Finish cleaning the spill by rinsing any contaminated surfaces with copious amounts of water. Consult federal, state, and/or local authorities for assistance on Instructions disposal Section VII. Handling and Storage Handling and Storage Keep away from heat. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. Do not breathe dust. Information Always store away from incompatible compounds such as oxidizing agents Section VIII. 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 Splash goggles. Lab coat. Dust respirator. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a Personal Protection specialist BEFORE handling this product. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Not available. **Exposure Limits** Section IX. Physical and Chemical Properties Solid. (Crystal, powder. White - almost Physical state @ 20°C Solubility Soluble in hydrogen chloride 1 mol/L (0.2 to white.) Specific Gravity Not available. Molecular Weight 254.33 Partition Coefficient Not available. **Boiling Point** Not available. Not applicable. Vapor Pressure Not available Not available. Melting Point Vapor Density Not available. Not available. Refractive Index Volatility Not available. Critical Temperature Not available Odor Not available. Not available Viscosity Taste Section X. Stability and Reactivity Data This material is stable if stored under proper conditions. (See Section VII for instructions) Stability Conditions of Instability Avoid excessive heat and light. Incompatibilities Reactive with oxidizing agents. Toxicological Information Section XI. RTECS Number Not available. Eye Contact. Ingestion. Inhalation. Routes of Exposure Toxicity Data Not available. Chronic Toxic Effects CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. **DEVELOPMENTAL TOXICITY**: Not available. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions. Acute Toxic Effects No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound. Section XII. Ecological Information Not available. Ecotoxicity Not available. Environmental Fate

Section XIII.	Disposar Considerations
Waste Disposal	Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.
Section XIV.	Transport Information
DOT Classification	Not a DOT controlled material (United States).
PIN Number	Not applicable.
Proper Shipping Name	Not applicable.
Packing Group (PG)	Not applicable.
DOT Pictograms	

Djenkolic Acid

Page 3

Section XV. Other Regulatory Information and Pictograms This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 TSCA Chemical Inventory CFR 720.36 (C) for those products not on the inventory list: (i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec. (ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on an MSDS sheet. WHMIS Classification Not controlled under WHMIS (Canada). (Canada) EINECS Number (EEC) 207-863-4 **EEC Risk Statements** Not available. Not available. Japanese Regulatory Data

Section XVI. Other Information

Version 1.0 Validated on 6/14/2011. Printed 6/14/2011.

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Section VIII

Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

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