

# **Sperrum**®

## Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
	Health Hazard	
		See Section 15.

Section 1. Chemical Product and Company Identification				Page Number: 1	
Common Name/ Trade Name	Ascorbic acid		Catalog Number(s).	YY103, YY1069, YY632, YY644, YY348, YY911, A1370, A1371, A2168, AS102, AS105	
			CAS#	50-81-7	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.		RTECS	CI7650000	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: Ascorbic acid	
Commercial Name(s)	Vitamin C, Ascorvit, Vicomin C, Acorbate, Ascorbutina, Catavin Cevex, Secorbate	ı C,	CI#	Not available.	
Synonym	3-Keto-L-gulofuranolactone; 3-Oxo-L-gulofuranolactone		IN CASE OF E	MEDCENCY	
Chemical Name	L-Ascorbic Acid			<u>4hr) 800-424-9300</u>	
Chemical Family	Not available.		CALL (310) 516-	8000	
Chemical Formula	C6H8O6				
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/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	% by Weight
1) Ascorbic acid		50-81-7				100
Toxicological Data on Ingredients	Ascorbic acid: ORAL (LD50):	Acute: 11900 mg/kg [	Rat]. 3367 mg/kg [M	ouæ].		
Section 3. Hazards Id	entification					
Potential Acute Health Effects	Slightly hazardous i	in case of skin contact (in	ritant), of eye contact	(irritant), of ingesti	on, of inhalation.	
Potential Chronic Health Effects	MUTAGENIC EFFECT TERATOGENIC EFF DEVELOPMENTAL	FECTS: Not available. CTS: Mutagenic for man ECTS: Not available. TOXICITY: Not available ged exposure is not know	).	U U	acteria and/or yeas	<b>s</b> .

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Section 4. First Aid	I 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. 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. Cold water may be used.
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. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Flammability of the Product	May be combustible at high temperature.
Auto-Ignition Temperature	660°C (1220°F)
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 open flames and sparks, of heat. Non-flammable in presence of shocks.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of open flames and sparks.
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 powdered organic solids, fire is possible at elevated temperatures or by contact with an ignition source.
Special Remarks on Explosion Hazards	Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion
Section 6. Accidental F	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 ar	nd Storage		
Precautions		f ignition. Ground all equipment containing material. Do not dical advice immediately and show the container or the label. ents.	
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Sensitive to light. Store in light-resistant containers. Oxygen Sensitive.		
Section 8. Exposure C	ontrols/Personal Protection		
Engineering Controls		or other engineering controls to keep airborne levels below enerate dust, fume or mist, use ventilation to keep exposure to	
Personal Protection	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.		
Exposure Limits	Not available.		
Section 9. Physical and	d Chemical Properties		
Physical state and	Solid. (Crystals solid. Powdered solid. Granular solid. Crystalline powder.)	Odor Odorless.	
appearance Molecular Weight	176.13 g/mole	Taste Acid. Sharp. Pleasant	
pH (1% soln/water)	Not available.	Color White. White to slightly yellowish.	
	Not available.		
Boiling Point			
Melting Point	Decomposition temperature: 190°C (374°F) - 192 C.		
Critical Temperature	509.85°C (949.7°F)		
Specific Gravity	1.65 (Water = 1)		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	The product is more soluble in water; log(oil/water) =	-2.1	
Ionicity (in Water)	Not available.		
<b>Dispersion Properties</b>	See solubility in water.		
Solubility	Soluble in hot water. Partially soluble in cold water. Insoluble in diethyl ether. Solubility in Water: 1g/3ml water. Solubility in water: 80% @ 100 deg. C and 45% @ 4 Solubility in alcohol: 1g/30 ml alcohol. Solubility in absolute alcohol: 1 g/50 ml absolute al Solubility in glycerol: 1g/100 ml glycerol. Solubility in propylene glycol: 1 g/20 ml propylene glycol:	cohol. glycol.	

### Ascorbic acid

Section 10. Stability a	nd Reactivity Data		
Stability	The product is stable.		
Instability Temperature	Not available.		
Conditions of Instability	Heat, ignition sources, light, air, incompatible materials, dust generation		
Incompatibility with various substances	Reactive with oxidizing agents.		
Corrosivity	Non-corrosive in presence of glass.		
Special Remarks on Reactivity	Air and light sensitive. Aqueous solutions are rapidly oxidized by air, accelerated by alkalies, iron, copper.		
Special Remarks on Corrosivity	Not available.		
Polymerization	Will not occur.		
Contine 11 Toxicologi	and information		
Section 11. Toxicologi			
Routes of Entry	Inhalation. Ingestion.		
Toxicity to Animals	Acute oral toxicity (LD50): 3367 mg/kg [Mouæ].		
Chronic Effects on Humans	MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.		
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	May affect genetic material (mutagenic). May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data. Human: passes through the placenta, excreted in maternal milk		
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects Skin: May cause skin irritation. Low hazard for normal industrial handling. Eyes May cause eye irritation. Inhalation: May cause respiratory tract irritation. Low hazard for normal industrial handling. Ingestion: Ingestion of small amounts during normal industrial handling is a low hazard. Ingestion of large amounts may cause gastrointestinal tract irritation, hypermotility, diarrhea, acidification of the urine which may cause stones in the urinary tract and may cause renal failure . May also affect behavior (psychomotor coordination, somnolence), eyes(lacrimation), blood (anemia). Chronic Potential Health Effects Ingestion: Prolonged or repeated ingestion may affect the blood/bone marrow and metabolism.		

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.	

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### 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		
DOTClassification	Not a DOT controlled material (United States).	
Identification	Not applicable.	
Special Provisions for Transport	Not applicable.	
DOT (Pictograms)		

Section 15. Other R	gulatory Information and Pictograms			
Federal and State Regulations	TSCA 8(b) inventory: Accorbic 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 (EINECS N 200-066-2). 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 to the EU regulations.   S24/25- Avoid contact with skin and eyes.			
HMIS (U.S.A.)	Health Hazard 1 National Fire Protection Flanmability   Fire Hazard 1 Association (U.S.A.) Health   Reactivity 0 Fire Protection Reactivity   Personal Protection E Specific hazard			
WHMIS (Canada) (Pictograms)				
DSCL (Europe) (Pictograms)				
Continued on Nex	Page			

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TDG (Canada) (Pictograms)	$\bigotimes$	
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 Inf	·	

Section 16. Other Information			
MSDS Code	A5930		
References	Not available.		
Other Special Considerations	Not available.		
Validated by Sonia Owen on 5/16/2008.		Verified by Sonia Owen. Printed 6/25/2008.	
CALL (310) 516-80	00		

#### <u>Notice to Reader</u>

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.