		31223 1	CHENT	DEC	:enn/	124 <u>-</u> 9300	
101510101	OFF ATTRIBUTED NOT SEED OF CODE SEED OF SEED SEED OF SEED				25 11 27 21		
IMPORTAN	T		3-SEVERE 2-MODERA 1-SLIGHT 0-MINIMAL	TE:	Fla	th Hazard 0 mmablity 1 Reactivity 0	7
MATERIAL SAFE	TY DATA SHEE	et 🛭					134 234
READ CAREFULLY BEFORE US	NG CHEMICAL	&	<u> </u>	N/A	" NA	ME.	灩
Product No. SB 1168 M			Chemical Synonyms				
Product Name CITRIC ACID,		F	ormula	C ₆ H ₈ C),	-	
ANHYDROUS			.A.S. No.	77-92	-9		
Principal Hazardous Corr Citric Acid CAS# 77-92 * chemical subject to the reportin SECTION Melting Point ("F)	2-9	te Wi.	% Specific Graving	P.E.L Nor		TLV Units Establishe	d d
Boiling Point ('F)	N/A		Percent Volatile by Volume (%)		N/A		
Vapor Pressure (mm Hg)	N/A		Evaporation Rate (===1)		N/A		_
Vapor Density (Air=1)	N/A					_	
Solubility in Water	59.2% at 200°C						
Appearance & Odor	White crystalline powder. Odorless.						
SECTION IV	MALE WILL	A) (CEI	IN TYPE		A		Á
Flash Point (Method Used)		Flammab % by Vol	Air	Lower N/A	Upper N/A	_	

Extinguisher 3 Use dry chemical, carbon dioxide, water spray or foam. Media

Special Firefighting Procedures

Wear self-contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards

High concentrations of dust in air may form explosive mixture.

DEC 071995

D.O.T.	Not Regulated	

THE PRINCIPLE SHIPE SPINE

None established.

Effects of Overexposure

INHALATION: May cause irritation of upper respiratory system, coughing and shor of breath. INGESTION: May cause abdominal pains, nausea, vomiting. SKIN: May cause irritation, swelling and pain. Prolonged contact may cause burns. EYES: Cont may cause redness, tearing, conjunctivitis.

Emergency and First Aid Procedures

SKIN: Remove contaminated clothing and shoes. Flush with plenty of water then wash with mild soap water. If irritation or burns develops and persists get medical attention. Wash clothing before reuse. E' Immediately flush with plenty of water for at least 15 minutes while occasionally litting lids. INGESTIC conscious give two glasses of water or milk. Do not induce vomiting. Never give anything by mouth to unconscious person. INHALATION: Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. Call a physician.

SECTION VI	HEACTIVITY DAYA			
Stability	Conditions to Avoid			
Stable 🗀 Unstable 🗆	None			
incompatibility (Materials to Avoid)	Metallic nitrates, strong oxidizers.			
Hazardous Decomposition Products	Thermal decomposition results in acid fumes, carbon monoxide, carbon dioxide.			
Hazardous Polymerization	Conditions to Avoid			
May Occur D Will Not D	None			
SECTION VII	SPILL OR LEAK PROCEDURES			
Character to Tales in Occa	Material is Polyment or Callled			

Steps to be Taken in Case Material is Released or Spilled

Contain spill. Sweep or vacuum into containers for disposal according to local, state a federal regulations.

Waste Disposal Method
Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size qu Dispose of in approved disposal site according to local, state and federal regulations.

SECTION VIII	SPECIAL PR	OTEQ.	ION INFO	$iM_{\rm M}$	ION 🔭 🔭	
Respiration Protection (Specify Type)						
	Local Exhaust			Special	******	
ventuation ***	Mechanical (General)	X		Other	******	
Protective Gloves	Gloves		Eye Protection		Resistant Goggl	
Other Protective Equipment	Full body covering in clothing.					
SECTION IX	SPECIAL PR	EPAU	TIGNS			

Precautions to be Taken in Handling & Storing

Keep container closed. Wash thoroughly after handling. Store in cool, dry area away from strong oxid Protect container from damage.

Other Preceutions Other Rescautions

Read label on container before using. Do not wear contact lenses when working with chemicals.

Remove containers from fire if possible. Cool containers exposed to flame with water

For laboratory use only. Not for household use, Keep out of read Effective Date Approved by Steven C. Quandt