



Material Safety Data Sheet

Metro Pride L.L.C.

36 Mileed Way
Avenel, NJ 07001-2403

Phone: 732-382-2100 Fax: 732-499-7799



Quality. Integrity. Partnership.

Ascorbic Acid

SECTION I CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
Company Name	Metro Pride L.L.C. (Distributor) 36 Mileed Way Avenel, NJ 07001-2403
Emergency Phones	<i>Metro Pride</i> 732-382-2100 <i>CHEMTREC</i> 800-424-9300 (Transportation Emergencies) <i>NJ Poison Information</i> 800-962-1253 (Ingestion)
Effective Date	October 9, 1997
Revision Date	February 6, 2002
Chemical Name	Ascorbic Acid
CAS Number	50-81-7
RTECS Number	CI7650000
Synonyms	AA, Acide ascorbique (French), Acidum ascorbicum (Latin), Adenex, Acido ascorbico (Spanish), Acidum ascorbinicum, Allercorb, Antiscorbutic vitamin, Antiscorbic vitamin, Arco-cee, Ascollin, Ascorb, Ascorbajen, Ascorbate, Ascorbic acid, L-(+)-Ascorbic acid, Ascorbicab, Ascorbicap, Ascor-B.I.D., Ascorbin, Ascorbutina, Ascorfeal, Ascorin, Ascorvit, Cantan, Cantaxin, Caswell No. 061B, Catavin C, Cebid, Cebicure, Cebion, Cebione, Cecon, Cee-Caps TD, Cee-Vite, Cegiolan, Ceglion, Ce Lent, Celaskon, Celin, Cemagyl, Cemill, Ce-Mi-Lin, Cenetone, Cenolate, Cereon, Cergona, Cescorbat, Cetamid, Cetane, Cetane-Caps TC, Cetane-Caps TD, Cetemican, Cevalin, Cevaline, Cevex, Cevi-Bid, Cevimin, Ce-Vi-Sol, Cevital, Cevitamic acid, Cevitamin, Cevitan, Cevitex, Cewin, Ciamin, Cipca, C-Level, Citrisorb, Colascor, C-Long, Concemin, C-Quin, C-Span, C-Vimin, Davitamon C, Dora-C-500, L-Threo-hex-2-enonic acid, D-lactone, Duosorb, Hicee, Hybrin, Ido-C, 3-Keto-L-gulofuranolactone, L-3-Ketothreohexuronic acid lactone, Kyselina askorbova (Czech), Laroscorbine, Lemasorb , Liqui-Cee, L-Lyxoscorbic acid, Meri-C, Natrasorb, Natrasorb injectable, NCI-C54808, Neo-Valdrin, NSC-33832, 3-Oxo-L-gulofuranolactone, 3-Oxo-L-

	gulofuranolactone (enol form), Planavit C, Proscorbin, Redoxon, Ribena, Roscorbic, Scorbacid, Scorbu-C, Secorbate, Testascorbic, Uantox ASCA, Vicelat, Vicin, Vicomin C, Viforcit, Viscorin, Vitace, Vitacee, Vitacimin, Vitacin, Vitamin C, Vitamisin, Vitascorbol, Xifix, Xyloascorbic acid, L, L-Xyloascorbic acid
Metro Pride Product Code	2058xx

SECTION II COMPOSITION

Component Name	Percentage (Volume)	PEL	CAS Number	OSHA Hazard?
Ascorbic Acid	100	None Established	50-81-7	No

SECTION III HAZARDS IDENTIFICATION

Appearance/Odor	Solid White Crystals with a Slight Pleasant Odor
Physical Hazards	Possible Inhalation Hazard
Unusual Fire Hazard	None "Empty" contains retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.
Effects of Overexposure	Acute: Inhalation of dust may irritate nose and throat. Contact with eyes will cause irritation. Prolonged skin contact will cause irritation. Chronic: None Known.
Target Organs	Eyes Skin Respiratory System
Carcinogenicity	According to information currently available, this material is not a carcinogen.

SECTION IV FIRST-AID MEASURES

Eyes	If splashed into the eyes, remove contact lenses if worn and flush with clear water for 15 minutes or until irritation subsides. If irritation persists, contact a physician.
-------------	---

Skin	In case of skin contact, remove any contaminated clothing and wash skin thoroughly with soap and water. Seek medical attention if irritation develops. Remove and wash contaminated clothing thoroughly.
Inhalation	If overcome by vapor, remove from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available.
Ingestion	Give large quantities of water or mild. Contact a physician.
Note(s) to Physician	None Found

**SECTION V
FIRE-FIGHTING MEASURES**

Flash Point	Not Applicable
Lower Flame Limit	Not Applicable
Upper Flame Limit	Not Applicable
Autoignition Temperature	Not Found
Extinguishing Media	This material is not flammable. Use water spray, dry chemical, CO ₂ , or foam as appropriate for surrounding fire.
For Fire	Clear fire area of unprotected personnel and isolate. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.
Decomposition Products	Burning and elevated temperatures can produce carbon monoxide and/or carbon dioxide. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.

**SECTION VI
ACCIDENTAL RELEASE MEASURES**

For Spills	Wear appropriate respirator and other protective clothing; contain. Shovel into D.O.T. approved waste containers. Keep out of sewers, storm drains, surface waters and soil. Flush area with water to remove trace residue; dispose of flush solution as above.
-------------------	---

**SECTION VII
HANDLING & STORAGE**

Handling & Storage	Store in a dry, well-ventilated area away from incompatible materials. Keep container closed tightly when not in use.
-------------------------------	---

SECTION VIII EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection	If use conditions generate dusts, wear NIOSH approved respirator or air purifying respirator with filters in the pressure-demand mode.
Ventilation	Use only with ventilation sufficient to prevent buildup of explosive concentrations in air. No smoking, flame, or other ignition sources.
Protective Gloves	If needed, use chemical-resistant gloves to avoid prolonged or repeated skin contact
Eye Protection	Use splash goggles or face shield when eye contact may occur. An eye wash fountain should always be accessible and operational for emergency use.
Other Protection	Neoprene or rubber protective clothing should be worn to avoid contaminating clothing. Safety shower(s) should always be accessible and operational for emergency use.
Threshold Limit Value(s)	None Established <i>Note:</i> Chemical Mixtures may act upon the same organ system(s). See CFR 1910.100(d) (2) and ACGIH Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices booklet (Appendix C) for the determination of exposure limits for mixtures. Consult an industrial hygienist or similar professional to confirm that the calculated exposure limits are appropriate.

SECTION IX PHYSICAL & CHEMICAL PROPERTIES

Boiling Point	Not Applicable
Freezing/Melting Point	378° F (192° C)
Volatility (%)	Not Applicable
Vapor Pressure	Not Applicable
Vapor Density (Air = 1)	Not Applicable
Solubility in Water	Soluble
Specific Gravity (H₂O = 1)	1.65
Evaporation Rate	Not Applicable
pH	Not Found
Volatile Organic Content	Not Applicable
Molecular Weight	Not Found
Chemical Formula	C ₆ H ₈ O ₆

SECTION X STABILITY & REACTIVITY

Stability	This material is stable and will not react with water.
Conditions to Avoid	Avoid moisture, air, and light.
Incompatible Materials	Strong oxidizing agents, dyes, alkalis, iron, copper.
Hazardous Polymerization	Will not occur.

SECTION XI TOXICOLOGICAL INFORMATION

Acute Toxicity	Acute Oral LD ₅₀ (Rat):	11,000 mg/kg
	Acute Dermal LD ₅₀ (Rabbit):	Not Found
	Acute Inhalation LC ₅₀ (Rat):	Not Found
Primary Route(s) of Entry	Inhalation	

SECTION XII ECOLOGICAL INFORMATION

Biodegradability	Not Found
Plants and Wildlife	Not Found

SECTION XIII DISPOSAL INFORMATION

RCRA	When this product becomes a waste, it is classified as a non-hazardous waste under criteria of the Resource Conservation and Recovery Act (40 CFR 261).
Waste Disposal	Dispose in accordance with current governmental regulations.
Empty Containers	"Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

SECTION XIV TRANSPORT INFORMATION

Shipping Name	Not Regulated
Reportable Quantity (RQ)	None Established
Emerg. Response Guide	None Established
Packaging Sizes	Bulk, Totes, 55 Gal. Drums

SECTION XV REGULATORY INFORMATION	
CERCLA	Releases of this material to air, land or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III, Section 304.
SARA TITLE III	
Item	Hazard (Y/N)
Acute Health:	No
Chronic Health:	No
Fire:	No
Sudden Release of Pressure:	No
Reactive:	No
Reportable Quantity: (RQ):	None Established
Threshold Planning Quantity (TPQ):	None Established
313 Toxic Chemical	No

State Regulations...	
	— None Found —
NOTE: The absence of a state listing does not preclude that this material may be regulated by any state.	

SECTION XVI SUPPLEMENTAL INFORMATION					
HMIS Ratings			NFPA Ratings		
	Health	1		Health	1
	Flammability	0		Flammability	0
	Reactivity	0		Reactivity	0
	Personal Protection	X		Specific Hazards	—

HMIS & NFPA Key		NFPA Specific Hazards	
0 —	Minimal	POL —	Polymerizes under normal conditions
1 —	Slight	OXY —	Oxidizing Agent
2 —	Moderate	Exp —	Explosive - Heat or shock sensitive
3 —	Serious	W —	Water Reactive
4 —	Severe		

Label Information...	
Attention	<p>CAUTION</p> <p>Store in a cool, dry place away from oxidizers. Wash thoroughly after handling. Keep Container Closed When Not In Use For Industrial Use Only</p>
First Aid	<p>Eyes: If splashed into the eyes, remove contact lenses if worn and flush with clear water for 15 minutes or until irritation subsides. If irritation persists, contact a physician.</p> <p>Skin: In case of skin contact, remove any contaminated clothing and wash skin thoroughly with soap and water. Seek medical attention if irritation develops. Remove and wash contaminated clothing thoroughly.</p> <p>Inhalation: If overcome by vapor, remove from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available.</p> <p>Ingestion: Give large quantities of water or milk. Call a physician.</p>
For Fire	<p>Clear fire area of unprotected personnel and isolate. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water. This material is not flammable. Use water spray, dry chemical, CO₂, or foam as appropriate for surrounding fire.</p>
For Spill	<p>Wear appropriate respirator and other protective clothing; contain. Shovel into D.O.T. approved waste containers. Keep out of sewers, storm drains, surface waters and soil. Flush area with water to remove trace residue; dispose of flush solution as above.</p>
Empty Containers	<p>"Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.</p>

Metro Pride makes no warranty of any kind, express or implied, concerning the use of this product either singly or in combination with other substances. User assumes all risks incident to its use. To the best of our knowledge, the information contained herein is accurate. However, neither Metro Pride nor any of its subsidiaries or affiliates assume any liability whatsoever for the accuracy or completeness of the information contained herein.

Footnotes

Revised Format, corporate name change

Ascorbic Acid

Material Safety Data Sheet

Page 7 of 8

Revised February 6, 2002

Printed February 22, 2002

File: Ascorbic Acid.doc
Created: October 9, 1997
Last Revision: February 6, 2002
Printed: February 22, 2002
EJ 181