

SAFETY DATA SHEET USABLUEBOOK® ASCORBIC ACID TABLETS

EMERGENCY TELEPHONE: (800) 424-9300

DATE PREPARED: JANUARY 2015

I. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	USABlueBook®
CHEMICAL NAME	Ascorbic Acid Tablets
CHEMICAL ABSTRACT SERVICE NO.	CAS #50-81-7
CHEMICAL FAMILY	Organic Acid
FORMULA	C ₆ H ₈ O ₆
SUPPLIER	USABlueBook 3781 Bur Wood Drive Waukegan, IL USA 60085
EMERGENCY TELEPHONE NUMBER	(800) 424-9300
TECHNICAL PHONE NUMBER	(800) 548-1234

II. HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW	May cause irritation to eyes, skin and respiratory system on contact. Ingestion may irritate gastrointestinal tract. Ingestion of small amounts is not likely to produce harmful effects. Chronic ingestion of large quantities may cause gastrointestinal effects including nausea, diarrhea, urine acidification, oxalate and uric crystallization in the bladder and kidneys, decreased reaction times, psychomotor coordination.
POTENTIAL ACUTE HEALTH EFFECTS	
INHALATION	Inhalation may irritate the nose, throat and upper respiratory tract.
INGESTION	Ingestion of small amounts is not likely to produce harmful effects. Chronic ingestion of large quantities may cause gastrointestinal effects including nausea, diarrhea, urine acidification, oxalate and uric crystallization in the bladder and kidneys, decreased reaction times, psychomotor coordination.
SKIN	May cause skin irritation.
EYES	May irritate eyes.
OVER EXPOSURE SIGNS/SYMPTOMS	
INHALATION	Adverse symptoms may include the following: nose, throat and respiratory tract irritation
INGESTION	Adverse symptoms may include the following: gastrointestinal tract irritation large quantities may cause gastrointestinal effects including nausea, diarrhea, urine acidification, oxalate and uric crystallization in the bladder and kidneys, decreased reaction times, psychomotor coordination.
SKIN	Adverse symptoms may include the following: irritation
EYES	Adverse symptoms may include the following: irritation
MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE	Not available



III. CONSUMPTION/INFORMATION ON INGREDIENTS

ASCORBIC ACID	75%
INERT INGREDIENTS	25%

THERE ARE NO ADDITIONAL INGREDIENTS PRESENT, WITHIN THE CURRENT KNOWLEDGE OF THE SUPPLIER AND IN THE CONCENTRATIONS APPLICABLE THAT ARE CLASSIFIED AS HAZARDOUS TO HEALTH OR THE ENVIRONMENT AND HENCE REQUIRE REPORTING IN THIS SECTION.

IV. FIRST AID PROCEDURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

EYE CONTACT	Flush eyes with plenty of water. If irritation persists, seek medical attention.
SKIN CONTACT	Wash with soap and water. Seek medical attention if irritation develops.
INHALATION	Remove to fresh air.
INGESTION	Do not induce vomiting. Rinse mouth. If adverse symptoms develop, seek medical attention.
NOTE TO PHYSICIAN	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested.

V. FIRE-FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT	Not available
EXTINGUISHING MEDIA	
SUITABLE	Use any fire fighting agent appropriate for surrounding material; use water spray, carbon dioxide, dry chemical or foam.
NOT SUITABLE	Not applicable
SPECIAL EXPOSURE HAZARDS	As with most organic solids, combustion is possible at elevated temperatures.
HAZARDOUS COMBUSTION PRODUCTS	Oxides of carbon (CO, CO ₂)
SPECIAL FIREFIGHTING PROCEDURES	Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.

VI. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear appropriate personal protective equipment if required.
ENVIRONMENTAL PRECAUTIONS	Not Applicable
LARGE SPILL	Sweep or scoop into clean, dry disposal container. Flush spill area with water.
SMALL SPILL	Sweep or scoop into clean, dry disposal container. Flush spill area with water.
REFERENCE TO OTHER SECTIONS	See Section I for emergency contact information. See Section VIII for information on appropriate personal protective equipment. See Section XIII for additional waste treatment information.

VII. HANDLING AND STORAGE

HANDLING	Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Use caution in handling spilled material. Put on appropriate personal protective equipment (see Section VIII). Do not swallow. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container with the lid securely closed. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.
STORAGE	Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers tightly closed and protect them from physical damage. Protect from direct light and minimize contact with air. Keep material dry. Keep away from oxidizers, acids and other chemicals. Do not reuse or refill empty containers. Offer to recycling if available or place in trash collection. Do not contaminate food or feed by storage or disposal of this product.

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONSULT LOCAL AUTHORITIES FOR ACCEPTABLE EXPOSURE LIMITS

RECOMMENDED MONITORING PROCEDURES
 ENGINEERING MEASURES
 HYGIENE MEASURES

Per OSHA & ACGIH no permissible exposure limits have been established.
 Use adequate general or local exhaust ventilation to keep fume and/or dust level as low as possible.
 Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

PERSONAL PROTECTION

EYES	Safety glasses
HANDS	Gloves should be worn
GLOVES	Natural or synthetic rubber
RESPIRATORY	Respiratory protection is not required under normal use, however when necessary, use NIOSH/MSHA approved respirator following manufacturer's recommendations. NIOSH approved dust mask is essential where dusting may occur.
SKIN	Boots, aprons or chemical suits as required to prevent skin contact.
ENVIRONMENTAL EXPOSURE CONTROLS	Not applicable

IX. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Solid	DENSITY (lbs/gal)	12.7
FLASH POINT	Not available	VAPOR PRESSURE	Not available
DECOMPOSITION TEMPERATURE	Not available	VAPOR DENSITY	Not available
MATERIAL SUPPORTS COMBUSTION	Not applicable	VOLATILITY	Not available
COLOR	Orange tablet	EVAPORATION RATE	Not available
ODOR	Slight citrus odor	VISCOSITY	Not applicable
pH	1% Aqueous Solution, 2 to 3	SOLUBILITY	33g/100 mL water @ 25°C
BOILING/CONDENSATION POINT	Not available	WATER SOLUBILITY AT ROOM TEMPERATURE	Not available
MELTING/FREEZING POINT	Not available	PARTITION COEFFICIENT NOCTANOL/WATER	Not available
SPECIFIC GRAVITY	Not available	% SOLID (W/W)	Not available

X. STABILITY AND REACTIVITY

STABILITY	Stable
CONDITIONS TO AVOID	Exposure to light, air, moisture and high temperatures
MATERIALS TO AVOID	Incompatible with strong acids, strong bases and strong oxidizers
HAZARDOUS COMBUSTION PRODUCTS	Oxides of carbon (CO, CO ₂)
POSSIBILITY OF HAZARDOUS REACTIONS	Not applicable

XI. TOXICOLOGICAL INFORMATION

PERMISSIBLE	No permissible exposure limits have been established by OSHA.
ACUTE	
INHALATION	Inhalation may irritate the nose, throat and upper respiratory tract.
EYE/SKIN	Excessive contact may cause skin irritation. Eye contact may cause irritation.
INGESTION	Ingestion of small amounts is not likely to produce harmful effects. Chronic ingestion of large quantities may cause gastrointestinal effects including nausea, diarrhea, urine acidification, oxalate and uric crystallization in the bladder and kidneys, decreased reaction times, psychomotor coordination.
CHRONIC	Chronic ingestion of large quantities may cause gastrointestinal effects including nausea, diarrhea, urine acidification, oxalate and uric crystallization in the bladder and kidneys, decreased reaction times, psychomotor coordination.

XII. ECOLOGICAL INFORMATION

ECOLOGICAL TOXICITY VALUES	No information available
ENVIRONMENTAL EFFECTS	Not applicable
BIODEGRADABILITY	Not applicable

XIII. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL	Dispose in accordance with all local, state and federal regulations.
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XIV. TRANSPORTATION INFORMATION

IDENTIFICATION NUMBER	Not applicable	I.M.O. DESCRIPTION	Non-Hazardous
PACKING GROUP	Not applicable	U.S. DOT SHIPPING NAME	Non-Hazardous Tablets
REPORTABLE QUANTITY	Not applicable	U.S. DOT HAZARD CLASS	Non-Hazardous
HMIS/NFPA RATING	Not applicable		

XV. REGULATORY INFORMATION

UNITED STATES INVENTORY (TSCA)	Yes
CANADA REGULATIONS (WHIMIS)	Not controlled
CERCLA HAZARDOUS SUBSTANCE	No
SARA TITLE III	Non-hazardous

XVI. OTHER INFORMATION

OTHER SPECIAL	Not applicable
DATE OF ISSUE	January 21, 2015