



## Ascorbitol™ Citrus Safety Data Sheet

Source of MSDS: DESIGNED NUTRITIONAL PRODUCTS  
MATERIAL SAFETY DATA SHEET

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DESIGNED NUTRITIONAL PRODUCTS, INC.  
1199 SOUTH 1480 WEST  
OREM, UTAH 84058 USA: (801) 224-4518  
EMERGENCY NUMBER USA: (801) 224-4518  
CHEMTREC ASSISTANCE: (801) 224-4518  
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### SUBSTANCE IDENTIFICATION

SUBSTANCE: \*\*ASCORBITOL™ WITH CITRUS OILS\*\*  
TRADE NAMES/SYNONYMS:  
ASCORBITOL™ PLUS  
DESCRIPTION: COMPREHENSIVE VITAMIN C BLEND WITH CITRUS OILS

MOLECULAR FORMULA:  
MOLECULAR WEIGHT: N/A  
NFPA RATINGS (SCALE 0-4): HEALTH=2 FIRE=1 REACTIVITY=0

### COMPONENTS AND CONTAMINANTS

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COMPONENT: ASCORBITOL™ PLUS PERCENT: 100.0  
OTHER CONTAMINANTS: NONE  
EXPOSURE LIMITS:  
No occupational exposure limits established by OSHA, ACGIH, or NIOSH.  
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### PHYSICAL DATA

DESCRIPTION: MESH SIZE: 100% through 60 mesh.  
DENSITY:  
MICROBIOLOGICAL:  
SALMONELLA: NEGATIVE  
E.COLI: NEGATIVE  
TOTAL COLIFORMS: NEGATIVE  
STANDARD PLATE COUNT: <10,000 CFU/gm  
YEAST & MOLD: <1000 CFU/mg  
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### FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD:  
Does not readily ignite when exposed to heat or flame.  
Dust-air mixtures may ignite or explode.  
AUTOIGNITION TEMP:  
FIREFIGHTING MEDIA:  
Dry chemical, carbon dioxide, water spray or regular foam  
(1993 Emergency Response Guidebook, RSPA P 5800.6).  
For larger fires, use water spray, fog or regular foam  
(1993 Emergency Response Guidebook, RSPA P 5800.6).

FIREFIGHTING:

Move container from fire area if you can do it without risk (1993 Emergency Response Guidebook, RSPA P 5800.6, Guide Page 53).

Extinguish using agent suitable for type of surrounding fire. Avoid breathing vapors and dusts. Keep upwind.

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TRANSPORTATION DATA

NUTRITIONAL SUPPLEMENT

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TOXICITY

ASCORBITOL™ CITRUS:

TOXICITY DATA: **NO LD/50 TESTS HAVE BEEN DONE FOR ASCORBITOL™ PLUS.**

MONOHYDRATE: No data available.

CARCINOGEN STATUS: Human Inadequate Evidence, Animal Inadequate Evidence (IARC Group-3).

ACUTE TOXICITY LEVEL:

TARGET EFFECTS: Human Inadequate Evidence, Animal Inadequate Evidence

AT INCREASED RISK FROM EXPOSURE: Human Inadequate Evidence, Animal Inadequate Evidence

ADDITIONAL DATA: Human Inadequate Evidence, Animal Inadequate Evidence

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HEALTH EFFECTS AND FIRST AID

INHALATION:

ASCORBITOL™ CITRUS:

ACUTE EXPOSURE- May cause irritation.

CHRONIC EXPOSURE- No data available.

FIRST AID- Remove from exposure area to fresh air immediately. Perform artificial respiration if necessary. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention if symptoms persist.

SKIN CONTACT:

ASCORBITOL™ CITRUS:

ACUTE EXPOSURE- May cause irritation.

CHRONIC EXPOSURE- No data available.

FIRST AID- Remove contaminated clothing and shoes. Wash with soap or mild detergent and large amounts of water until no evidence of product remains (at least 15-20 minutes).

EYE CONTACT:

ASCORBITOL™ CITRUS:

ACUTE EXPOSURE- May cause irritation.

CHRONIC EXPOSURE- No data available.

FIRST AID- Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of product remains (at least 15-20 minutes). Get medical attention if irritation persists.

INGESTION:

ASCORBITOL™ CITRUS:

ACUTE EXPOSURE- Nausea, vomiting, diarrhea, headache.

CHRONIC EXPOSURE- In addition to the effects detailed in acute exposure, there is no information on significant adverse effects.

FIRST AID- (If vomiting occurs keep the head below the hips to prevent aspiration). (Dreisbach, Handbook of Poisoning, 12th Ed.). Treat symptomatically and supportively. Get medical attention if symptoms persist.

ANTIDOTE:

No specific antidote. Treat symptomatically and supportively.

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REACTIVITY

REACTIVITY:

Stable under normal temperatures and pressures.

INCOMPATIBILITIES:

ASCORBITOL™ PLUS:

ACIDS (STRONG): Incompatible.

BASES (STRONG): Incompatible.

CHLORINE WATER: Incompatible.

OXIDIZERS (STRONG): Fire and explosion hazard.

DECOMPOSITION:

Thermal decomposition products may include toxic oxides of carbon and nitrogen.

POLYMERIZATION:

Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

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STORAGE AND DISPOSAL

Observe all federal, state and local regulations when storing or disposing of this substance.

**\*\*Storage\*\***

Store in a tightly closed container.

Store away from incompatible substances.

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CONDITIONS TO AVOID

May burn but does not ignite readily. Prevent dispersion of dust in air.

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SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL:

Stop leak if you can do it without risk. For small dry spills, a vacuum with HEPA filter is adequate. For larger spills, a shovel and/or broom are sufficient. Place material into clean, dry container and cover. Move containers from spill area. Keep unnecessary people away. Isolate any hazard areas and deny entry.

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PROTECTIVE EQUIPMENT

VENTILATION:

Provide local exhaust or process enclosure ventilation. Ventilation equipment should be explosion-proof if explosive concentrations of dust, vapor or fumes are present.

RESPIRATOR:

The following respirators are recommended based on information found in the physical data, toxicity and health effects sections. They are ranked in order from minimum to maximum respiratory protection.

The specific respirator selected must be based on contamination levels found in the work place, must be based on the specific operation, must not exceed the working limits of the respirator and must be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

Any dust and mist respirator.

Any air-purifying respirator with a high-efficiency particulate filter.

Any powered air-purifying respirator with a dust and mist filter.

Any powered air-purifying respirator with a high-efficiency particulate

filter.

Any type 'C' supplied-air respirator operated in the pressure-demand or other positive pressure or continuous-flow mode.

Any self-contained breathing apparatus.

FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS:

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Any supplied-air respirator that has a full face piece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

CLOTHING:

Employee should wear appropriate protective (impervious) clothing and equipment to minimize any possibility of skin contact with this substance.

GLOVES:

Employee must wear appropriate protective gloves to minimize possible irritation from this substance.

EYE PROTECTION:

Employee must wear splash-proof or dust-resistant safety goggles and a face shield to minimize contact with this substance.

Emergency wash facilities:

Where there is any possibility that an employee's eyes and/or skin may be exposed to this substance, the employer should provide an eye wash fountain and quick drench shower within the immediate work area for emergency use.

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-ADDITIONAL INFORMATION-

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