
Material Safety Data Sheet

SECTION 1 PRODUCT IDENTIFICATION

AQUA SOURCE

VITAMIN E & SELENIUM

FEED SUPPLEMENT

(LIQUID SUPPLEMENT FOR FURTHER MANUFACTURE OF FEED)

Manufacturer PARAGON SPECIALTY PRODUCTS, LLC.
Address 411 Ranch Road, Rainsville, AL 35986 U.S.A.
Telephone (256) 638-9636
Emergency CHEMTREC North America Transportation Emergency
(24-hr)
(800) 424-9300
Chemical Family VITAMIN AND SELENIUM BLEND
Formula Mixture

Hazard Classification Hazardous
HMS Rating System Health -3/ Flammability-3/ Reactivity-1

SECTION 2 COMPOSITION AND INFORMATION ON INGREDIENTS

| <u>Components</u> | <u>CAS-No.</u> | <u>TLV-TWA</u> | <u>Weight %</u> |
|-------------------|----------------|----------------|-----------------|
| Ethyl Alcohol | 64-17-5 | ----- | 13% |
| Propylene Glycol | 25322-68-3 | ----- | 74% |
| Vitamin E | 91-53-2 | ----- | 12% |
| Selenium | 7783-00-8 | ----- | 0.04% |
| Glycerin | 58-81-5 | ----- | 1% |

See Section 8 for Exposure Guidelines.

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance Yellow/ Brown (Liquid)
Odor Sweet/Alcohol

Precautions **WARNING!** FLAMMABLE LIQUID AND VAPOR. CAUSES EYE, SKIN, AND RESPIRATORY TRACT IRRITATION. Keep away from heat and flame. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation.

Environmental precautions Do not flush into surface water or sanitary sewer system. Potential to affect aquatic organisms and secondary waste treatment organisms

POTENTIAL HEALTH EFFECTS

| | |
|-------------------|--|
| Eyes | Irritating to eyes. May cause corneal inflammation. |
| Skin | Prolonged skin contact may cause skin irritation and/or dermatitis. Normal care and personal hygiene should prevent skin effects. |
| Inhalation | Irritation of the nose and throat, dizziness, and headache. |
| Ingestion | Depression of central nervous system. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Prolonged ingestion may cause liver damage, "fetal-alcohol syndrome" in pregnant females and neuronal degeneration. Aspiration (breathing) into lungs, caused while vomiting, may result in severe pulmonary injury. |

(See Section 11 for Toxicological Information)

SECTION 4 FIRST AID MEASURES

| | |
|---------------------|---|
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before re-use. |
| Inhalation | Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately. |
| Ingestion | If swallowed, call a physician or poison control center immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. |

SECTION 5 FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

| | | |
|--|---|------------|
| Flash point | 5 °C | 41 °F |
| Auto ignition Temperature | ca. 400 °C | 752 °F |
| Flammable limits in air % by volume | Lower explosion limit: | 4.0 % (V) |
| | Upper explosion limit: | 20.0 % (V) |
| Fire and explosion | Flash back possible over considerable distance. NFPA Class 1B flammable liquid. | |
| Extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. | |
| Fire Fighting Instructions | Wear self-contained breathing apparatus and protective suit. Keep containers and surrounding cool with water spray. | |

SECTION 6 ACCIDENTAL RELEASE MEASURE

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| Steps to be taken in case of spill or leak | Evacuate personnel to safe areas. Remove all sources of ignition. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Do not flush into surface water or sanitary sewer system. |
| Spill precautions | Material can create slippery conditions. |

SECTION 7 HANDLING AND STORAGE

| | |
|-------------------------------------|---|
| Safe handling advice | Ensure all equipment is electrically grounded before beginning transfer operations. |
| Storage / Transport pressure | Ambient. |

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Mechanical ventilation may be necessary if working with this product in enclosed areas and/or at elevated temperatures.

PERSONAL PROTECTIVE EQUIPMENT

| | |
|-------------------|--|
| Eyes | When contact with liquid is possible, use a face shield and/or chemical splash goggles. Otherwise use safety glasses with side shields or goggles. |
| Skin | Wear suitable protective clothing, gloves and eye/face protection. |
| Inhalation | Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. NIOSH-approved organic vapor air-purifying respirator, self-contained breathing apparatus, or air-supplied respirators where there may be potential for overexposure. |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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|----------------------------|-----------------------------|
| Appearance | Liquid |
| Colour | Brown |
| Odor | Alcohol/Sweet |
| Form | Liquid |
| Boiling point/range | 74 – 80 °C 165.2 – 176 °F |
| Vapour pressure | ca. 50 mm Hg @ 20 °C |
| Vapor density | ca. 1.5 |
| Solubility (water) | Miscible |
| Melting point/range | -114.1 °C -173.4 °F |
| Density | 7.26 lb/gal @ 15.5 °C |
| Specific gravity | 0.85 @ 15.5 °C @ 60 °F |
| Evaporation rate | ca. 2 (n-butyl acetate = 1) |

SECTION 10 STABILITY AND REACTIVITY

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| Conditions to avoid Hazardous decomposition Products | Keep away from heat and sources of ignition. Combustion products include carbon dioxide, carbon monoxide and possible other unidentified organic compounds. |
| Incompatibility with other materials Hazardous polymerization | Can react with strong oxidizers, inorganic acids, and halogens. None |

SECTION 11 TOXICOLOGICAL INFORMATION

| | |
|-------------------|---|
| Eyes | Irritating to eyes. |
| Skin | Slightly irritating. Test Substance: Ethanol Slightly irritating. Ethyl Acetate |
| Inhalation | Acute 8 hours CL50 (rat): 16,000 mg/l Test Substance: Ethanol |
| Ingestion | Acute oral LD(rat): 6,200 - 17,800 mg/kg Test Substance: Ethanol Acute oral LD50(rat): 5,000 mg/kg Test Substance: Ethyl Acetate |

CARCINOGENICITY This product contains no carcinogenic substances.

SECTION 12 ECOLOGICAL INFORMATION

| | |
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| Aquatic toxicity | Potential to affect aquatic organisms and secondary waste treatment organisms. LC50 (Trout) 96 hours 13,000 mg/l LC50 (P. Promelas (fathead minnow) 96 hours 15,300 mg/l LC50 (Goldfish) 8 hours 250 ppm |
| Biodegradation | May bio-concentrate (See only) |

SECTION 13 DISPOSAL CONSIDERATIONS

| | |
|-----------------------------|---|
| Waste code | D001 – Ignitability (RQ 100 LB) This product has the RCRA characteristic of ignitability. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification. |
| Waste Classification | Selenium is classified as Poison |
| Disposal methods | Dispose of only in accordance with local, state, and federal regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. |

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, triple-rinsed, properly bunged and promptly returned to a drum reconditioned, or properly disposed.

SECTION 14 TRANSPORTATION INFORMATION

DOT Shipping Name: Ethanol Solution,3,UN1170,PG III, LIMITED QUANTITY

LIMITED QUANTITY

SECTION 15 SPECIAL PRECAUTIONS OR COMMENTS

Special precautions to be taken in handling & storing:

Keep tightly closed. Store in a cool dry place.

Initial Date: November, 2005

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END OF MSDS

VITAMIN E & SELENIUM

(Liquid Supplement for Further Manufacture of Feed)

