



Section: 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: VF-11 Ready To Use Foliar Feed
Chemical Family: Ready to Use Plant Nutrients
Manufacturer: VF-11 Industries, Inc.
 18330 Sutter Blvd
 Morgan Hill, CA 95037

For Additional Product Information: 1 (800) 648-2661
In Emergency: 1 (408) 778-8432

Section: 2 COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

FOR EXPOSURE LIMITS SEE SECTION 8
 FOR OTHER TOXICOLOGICAL INFORMATION SEE SECTION 11

HAZARDOUS INGREDIENTS

Descriptive Name	CAS Number	Percentage Range	Hazard Type per CFR 1910.1200	Exposure Limits	LD ₅₀	LC ₅₀	NTP, IARC, Or OSHA Carcinogen
Potassium Nitrate	7757-79-1	<0.1%	Not Hazardous	None	Not Determined	Not Determined	No

Section: 3 HAZARDS IDENTIFICATION

PHYSICAL HAZARDS:

ACUTE HEALTH EFFECTS: None known

CHRONIC HEALTH EFFECTS: None known

IATA CLASSIFICATION:

HMIS RATINGS:

Health: 1
 Flammability: 0
 Reactivity: 0
 Protective Equipment: E

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Section: 4 FIRST AID MEASURES

EYES: Flush immediately with water for 15 minutes and take to physician.

SKIN: Wash affected area with water.

INGESTION: If conscious, drink large amounts of water and contact a physician.

INHALATION: Remove from exposure and restore breathing.

Section: 5 FIRE AND EXPLOSION HAZARDS

FLAMMABILITY DATA:

FLAMMABLE/COMBUSTIBLE/PYROPHORIC: Not flammable

FLASH POINT AND METHOD: None PMCC

AUTOIGNITION TEMPERATURE: Not established

FLAMMABLE LIMITS AT NORMAL TEMPERATURE AND PRESSURE (PERCENT VOLUME IN AIR):

LEL: N/A

UEL: N/A

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT: Not Sensitive

SENSITIVITY TO STATIC DISCHARGE: Not Sensitive

EXTINGUISHING MEDIA: Foam, Alcohol Foam, CO2, Dry Chemical, Water Fog

FIRE FIGHTING TECHNIQUES AND COMMENTS: Use standard firefighting techniques to fight fires involving this material. The material itself is not flammable.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide

Section: 6 ACCIDENTAL SPILL/RELEASE INFORMATION

FOR ALL TRANSPORTATION ACCIDENTS CALL CHEMTREC AT 1-800-424-9300.

REPORTABLE QUANTITY: Not Applicable

SPILL MITIGATION PROCEDURES:

Stop source of spill as soon as possible and notify appropriate personnel. Burn around spill area to prevent spill from spreading. Ventilate area.

WATER RELEASE:

Material is soluble in water. Contains nutrients that will encourage plant growth.

LAND SPILL:

Material will readily absorb into soil and leave nutrients for plant growth.

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SPILL RESIDUES:

Dispose of per guidelines under section 13, DISPOSAL CONSIDERATIONS.

PERSONNEL PROTECTION FOR EMERGENCY SPILL AND FIRE FIGHTING SITUATIONS:

Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to gloves, apron, and safety glasses.

Section: 7 HANDLING AND STORAGE**STORAGE CONDITIONS:**

Store in a cool, dry, well-ventilated place.

PRODUCT STABILITY AND COMPATIBILITY:

SHELF LIFE LIMITATIONS: Unlimited when stored in original, unopened containers

INCOMPATIBLE MATERIALS FOR STORAGE OR TRANSPORT: Do not store near items that will react with water.

INCOMPATIBLE MATERIALS FOR PACKAGING: N/A

Section: 8 PREVENTIVE MEASURES**PERSONAL PROTECTION FOR ROUTINE USE OF THIS PRODUCT:**

RESPIRATORY PROTECTION: Breathing apparatus is not required for use of this product.

SKIN AND EYE PROTECTIVE EQUIPMENT: Impervious gloves are recommended to prevent skin contact. Safety glasses to prevent eye contact are recommended.

ENGINEERING CONTROLS

VENTILATION: Local or mechanical to keep Section II ingredients below their exposure limits.

EQUIPMENT SPECIFICATIONS (WHEN APPLICABLE):

RESPIRATOR TYPE: None required

PROTECTIVE CLOTHING TYPE: (This includes: gloves, boots, apron, protective suit):

Impervious gloves, safety glasses

WASTE DISPOSAL:

Spilled material collected in absorbent material should be transferred to steel disposal or recovery drums. If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste under Subpart D. If this product becomes a waste, it should be disposed of in accordance with local, state and federal regulations by incineration.

Section: 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE(gas, liquid, solid): Liquid

APPEARANCE: Amber to brown

ODOR: Slight odor

FREEZING POINT: Not Determined

BOILING RANGE: Not Determined

DECOMPOSITION TEMPERATURE: Not Determined

SPECIFIC GRAVITY (H2O=1): 1.0

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BULK DENSITY: 8.3 lbs/gal @ 70 Deg F
pH @ 25 Deg C: 7-8
VOC VAPOR PRESSURE @ 25 Deg C: 0
SOLUBILITY IN WATER: Soluble
VOLATILES, PERCENT BY WEIGHT: 100%
EVAPORATION RATE: Slower than Ether
VAPOR DENSITY: Heavier than air
VOLATILE ORGANIC COMPOUND (VOC) G/L: 0 grams/Liter

Section: 10 STABILITY AND REACTIVITY DATA

CONDITIONS UNDER WHICH THIS PRODUCT MAY BE UNSTABLE:

MECHANICAL SHOCK OR IMPACT: No
ELECTRICAL (STATIC) DISCHARGE: No
HAZARDOUS POLYMERIZATION: Will Not Occur
CONDITIONS OF REACTIVITY: None known
HAZARDOUS DECOMPOSITION PRODUCTS: None known

Section: 11 TOXICOLOGICAL PROPERTIES

WARNING STATEMENTS AND WARNING PROPERTIES:
DO NOT TAKE INTERNALLY.

SIGNS, SYMPTOMS AND EFFECTS OF EXPOSURE

INHALATION

None known

SKIN

None known

EYE

None known

INGESTION

ACUTE: May cause nausea or vomiting.

CHRONIC: If large quantities are swallowed, do not induce vomiting as it might cause aspiration of vomitus into the lungs. Drink lots of water and see physician.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

INTERACTIONS WITH OTHER CHEMICALS THAT ENHANCE TOXICITY: None Known

ACUTE TARGET ORGAN TOXICITY: No organs known to be damaged from exposure to this product.

CHRONIC TARGET ORGAN TOXICITY: There are no known effects from repeated exposure.

REPRODUCTIVE AND DEVELOPMENTAL TOXICITY: There are no known or reported effects on reproductive function or fetal development.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

MUTAGENICITY: This product is not known to be mutagenic.

EXPOSURE LIMITS: Not Determined

**Section: 12 ECOLOGICAL INFORMATION**

AQUATIC TOXICITY: None known or reported.

Section: 13 DISPOSAL CONSIDERATIONS

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If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste under Subpart D.

If this product becomes a waste, it should be disposed of in accordance with local, state and federal regulations by incineration.

Section: 14 TRANSPORT INFORMATION

DOT SHIPPING NAME: DOT Non-Regulated (Plant food)

DOT HAZARD CLASS: None

DOT PACKING GROUP: None

DOT REPORTABLE QUANTITY:

Section: 15 REGULATORY INFORMATION**INTERNATIONAL**

All components of this product are listed on the following inventories: MITI (Japan) EINECS (EEC) DSL (Canada).

FEDERAL**TOXIC SUBSTANCES CONTROL ACT (TSCA):**

The components of this product are listed on the TSCA inventory.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT TITLE III (SARA):**Section 302/304**

Requires emergency planning based on 'Threshold Planning Quantities' (TPQs), and release reporting based on Reportable Quantities (RQs) of 'Extremely Hazardous Substances' (EHS) listed in Appendix A of 40 CFR 355. There are no components of this material with known CAS numbers that are on the EHS list.

Section 311 & 312

Based upon the available information, this material and/or components is classified as a health and/or physical hazards according to Section 311 & 312:



Descriptive Name	CAS Number	Percentage Range	Hazard Type per CFR 1910.1200	Exposure Limits	LD ₅₀	LC ₅₀	NTP, IARC, Or OSHA Carcinogen
None							

Section 313

This material does not contain chemicals with known CAS numbers subject to the reporting requirements of SARA Title III, Section 313 and 40 CFR 372:

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

This material does not contain chemical(s) with known CAS numbers classified as hazardous substances subject to the reporting requirements of CERCLA (40 CFR 302) and to the release reporting requirements of SARA (Section 302) based on reportable quantities (RQs):

OSHA Regulations

'Chemical-specific' U. S. Occupational Safety and Health Administration (OSHA) regulations (1910.1002 to 1910.1050) presented under 29 CFR 1910 do not apply to this material or its components.

Other EPA Regulations

No additional information available.

State**California Safe Drinking Water and Toxic Enforcement Act of 1988- Proposition 65**

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels that would be subject to the proposition

California South Coast Air Quality Management District (SCAQMD) Rule 443.1 (VOC's)

A Volatile Organic Compound (VOC) is any volatile compound of carbon excluding methane, carbon monoxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, 1,1,1-trichloroethane, methylene chloride, FC-23, CFC-113, CFC-12, CFC-11, CFC-22, CFC-114, and CFC-115. By this definition, this is a VOC material.

Massachusetts Right to Know Substance List (MSL) [105 CMR 670.000]

Hazardous Substances (MSL-HS) on the MSL must be identified when present in materials at levels greater than state specified criterion. The criterion is: $\geq 1\%$. Components with CAS numbers present in this material at a level which could require reporting under the statute are:

Chemical

CAS Number

Extraordinarily Hazardous Substances (MSL-EHS) on the MSL must be identified when present in materials at levels greater than state specified criterion. The criterion is $\geq 0.0001\%$. There are no materials present that could require reporting under this statute.

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Pennsylvania Right to Know Hazardous Substance List

Hazardous Substances (PA-HS) must be identified when present in materials at levels greater than the state specified criterion. The criterion is $\geq 1\%$. Components with CAS numbers present in this material at a level that could require reporting under the statute are:

ChemicalCAS Number**Section: 16 PREPARATION INFORMATION**

REVISION INFORMATION:

New MSDS format

PREPARED BY:

J Smith

APPROVAL DATE:

2/28/13

SUPERSEDES:

N/A

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of VF-11 Industries, Inc. The data in this sheet is related only to the specific material designated herein. VF-11 Industries, Inc. assumes no legal responsibility for use or reliance upon these data.

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