

# Superthrive® - Safety Data Sheet

## Section 1: Identification

**Product Identifier:** Superthrive®

**Recommended Use:** Superthrive is a concentrated non-toxic solution for plants to be mixed with water and used expressly for horticultural and agricultural purposes.

**Manufacturer:** Vitamin Institute  
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**Emergency Phone** (800) 441-8482

## Section 2: Hazard(s) Identification

### Classification of Mixture

Skin Irritation	Category 2
Eye Irritation	Category 2B

### Label Elements including precautionary statements

**Signal Word:** WARNING!  
**Symbol Name:** Exclamation Mark  
**Hazard Statement:** Causes Skin and Eye Irritation

#### Precautionary Statements - General

Keep out of reach of children

#### Precautionary Statements - Prevention

Wash hands thoroughly after handling.  
Wear protective gloves

#### Precautionary Statements - Response

**SKIN** IF ON SKIN: Wash with plenty of water  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.

**EYES** IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do.  
Continue rinsing.  
If eye irritation persists: Get medical attention/advice.

#### Precautionary Statements - Storage

none

#### Precautionary Statements - Disposal

none

**Other Hazards** not applicable

### Section 3: Composition/Information on Ingredients

#### Reportable Hazardous Substances

Name	CAS #	Concentration
Isopropyl Alcohol	67-63-0	1.80%
Acetic Acid	64-19-7	2.00%

### Section 4: First-Aid Measures

#### First Aid Measures

Skin Contact	Wash with plenty of water
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.
Ingestion:	Drink fluids to flush. DO NOT INDUCE VOMITING.
Inhalation:	N/A

If any irritation persists, seek medical attention.

#### Most Important Symptoms

Skin Contact	After skin contact, a skin irritation may occur (redness).
Eye Contact	After eye contact, an eye irritation may occur (redness).

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat Symptomatically
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### Section 5: Fire-fighting Measures

Extinguishing Media:	<u>Appropriate:</u> CO <sub>2</sub> , dry chemical, or foam. Water can be used to cool and protect exposed material. <u>Inappropriate:</u> not determined
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Special Fire Fighting Procedures: N/A

#### Unusual Fire and Explosion

Hazards: N/A

### Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Wash hands thoroughly after handling. Wear eye protection and protective gloves if necessary.
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Environmental Precautions Dilute with water and wash off pavement. Allow to drain into soil.

Methods and Materials for containment and clean up Pick up free liquid and keep in suitable, closed containers for recycle and/or disposal. Residual liquid can be absorbed on inert material.

### Section 7: Handling and Storage

Precautions for Safe Handling:	Handle Carefully. Wash your hands thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. If ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.
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Conditions for Safe Storage Store in the original container away from sunlight.

## Section 8: Exposure Controls / Personal Protection

### Control Parameters

#### Exposure Guidelines

Component	PEL
Isopropyl Alcohol	980 mg/m <sup>3</sup>
Acetic Acid	25 mg/m <sup>3</sup>

#### Appropriate Engineering Controls

N/A

#### Individual Protective Measures

Eye/Face Protection:	None required for consumer use. If splashes are likely to occur: Use safety glasses.
Skin/Body Protection:	Wear suitable clothing. Gloves may be worn by those with sensitive skin.
Respiratory:	Not Applicable
Hygiene:	Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Wash contaminated clothes before reuse.

## Section 9: Physical and Chemical Properties

Appearance:	Initial Boiling Point & Boiling Range - Not Available
Physical State - liquid	Upper/Lower flammability or explosive limits - Not Applicable
Color - amber	Vapor Pressure - Not Available
Odor - earthy	Vapor Density - Not Available
Odor Threshold: Not Applicable	Relative density - Not Available
pH - 3.0	Solubility - water soluble
Melting point / Freezing Point - Not Available	Partition coefficient: n-octanol/water - Not Available
Flammability - Non Flammable	Auto-ignition temperature - Not Available
Flash Point - Not Applicable	Decomposition Temperature - Not Available
Evaporation Rate - Not Available	Viscosity - Not Available

## Section 10: Stability and Reactivity

Chemical Stability - Stable  
Possibility of Hazardous Reactions - None  
Conditions to Avoid - None Known  
Incompatible Materials - None Known  
Hazardous Decomposition Products - None

## Section 11: Toxicology Information

### Information on Toxicological Effects

Acute Toxicity	<u>Isopropyl Alcohol:</u> LD50 (rat, oral) = 5045 mg/Kg LC50 ( rat, inhalation), 8 h = 16000 LD50 (skin, rabbit) = 12800 mg/Kg	<u>Acetic Acid :</u> LD50 (rat, oral) = 3310 mg/Kg LDLo ( rat, inhalation), 4 h = 16000 LD50 (skin, rabbit) = 1060 uL/Kg
Skin corrosion/irritation	Irritant for skin.	
Serious eye damage/irritation	Irritant for the eyes.	
Sensitization	Not available	
STOT-repeated exposure	Not available	
Germ cell mutagenicity	Not available	
Carcinogenicity	Not available	
Reproductive toxicity	Not available	
STOT-single exposure	Not available	
Aspiration hazard	Not available	

## Section 12: Ecological information

<b>Toxicity</b>	LC50 > 750 mg/L = Non Hazardous
<b>Persistence and degradability</b>	Not available
<b>Bioaccumulation potential</b>	Not available
<b>Mobility in the soil</b>	Not available
<b>Other Adverse Effects</b>	Not available

## Section 13: Disposal considerations

**Waste Treatment Methods** Waste residues are biodegradable and safe for soils.  
Dilute with water to discard.

**Container Handling and Disposal:** Rinse containers with water and recycle.

## Section 14: Transport Information

UN Number	Not Regulated
UN Proper Shipping Name	Not Regulated
Transport Hazard class	Not Regulated
Environmental Hazards	Not Regulated
Marine Pollutant	No
Special Precautions	None
Transport in Bulk (according to Annex II of MARPOL 73/78 and the IBC Code) -	Not Applicable

## Section 15: Regulatory Information

None

## Section 16: Other Information, including date of preparation or last revision

Created: May 27, 2015

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