



Safety Data Sheet

Sturdy Stalk® — Potassium Silicate Supplement

SECTION 1. IDENTIFICATION

Product Identifier	Sturdy Stalk
Other Means of Identification	Not Available
Recommended Use	Hydroponic plant nutrients.
Restrictions on Use	Not Applicable
Initial Supplier Identifier	Emerald Harvest 1399 Corporate Center Parkway Santa Rosa, California 95407 USA Telephone: +1 866-325-8235
Emergency Telephone Number	24 Hour Emergency Phone Number(s): INFOTRAC: 1-800-535-5053 (North America) INFOTRAC: 1-352-323-3500 (International) Contract number: 112430

SECTION 2. HAZARD IDENTIFICATION

GHS Classification	SKIN CORROSION/IRRITATION - CATEGORY 2 SERIOUS EYE DAMAGE/IRRITATION - CATEGORY 2
Label Elements Pictograms	
Signal Word	WARNING
Hazard Statements	H319 - Causes serious eye irritation. H315 - Causes skin irritation.
Precautionary Statements	
Prevention:	P280 - Wear protective gloves. Wear eye or face protection. P264 - Wash hands thoroughly after handling.
Response:	P302 + P352 – IF ON SKIN: Wash with plenty of water. P332 + P313 – If skin irritation occurs: Get medical advice/attention. P362 + P364 – Take off contaminated clothing and wash is before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 – Call a POISON CENTER/doctor if you feel unwell.
Storage:	Not Applicable
Disposal:	P501 – Dispose on contents/container according to local/regional/national regulations.
Other Hazards	Not Applicable
NOTES	SDS is to be retained and available for use by employees and other users of the product.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration (w/w%)	Common name / Synonyms
Potassium Silicate, Anhydrous	1312-76-1	< 20%*	Not Applicable
Non-hazardous ingredients or those below disclosure requirements	Not Applicable	Balance	Not Applicable

Notes	
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SECTION 4. FIRST-AID MEASURES

Inhalation	If breathed in, move person into fresh air. If concerned, seek medical attention.
Skin Contact	Rinse with plenty of water. If concerned, seek medical attention.
Eye Contact	Rinse with plenty of water for at least 15 minutes. Remove contact lenses if easily possible.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. If large amounts are ingested, get medical attention immediately.
Most Important Symptoms and Effects, Acute and Delayed	Acute: EYE CONTACT: May cause irritation, itching, redness, watering. INHALATION: Coughing, irritation. SKIN CONTACT: May cause irritation, rash, redness, itching. Chronic: Repeated exposure may cause damage to lungs or affect existing skin and lung conditions.
Immediate Medical Attention and Special Treatment	Treat symptomatically. Note: Effects of potassium silicate are dependant upon ratio of silica to alkali and the pH.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media	
Suitable Extinguishing Media	Not flammable, use extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media	Not Applicable
Flammability classification (OSHA 29 CFR 1910.106)	Not flammable.
Hazardous Combustion Products	None expected.
Specific Hazards Arising from the Product	Not applicable.
Special Protective Equipment and Precautions for Fire-Fighters	Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures	Implement spill control plan. All persons dealing with the clean-up should be trained and wear the appropriate personal protective equipment. Do not touch spilled product. Ensure adequate ventilation. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.
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Methods for Containment and Cleaning Up

Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply. Ventilate area of release. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into an appropriate container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

SECTION 7. HANDLING AND STORAGE**Precautions for Safe Handling**

Use with adequate ventilation. Wear suitable protective equipment during handling. Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep containers closed when not in use.

Conditions for Safe Storage

Store in a cool, dry, well ventilated area, away from incompatibles. Inspect periodically for damage or leaks. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Keep in original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control Parameters**

Chemical Name	ACGIH® TLV®		OSHA PEL	NIOSH REL
Potassium Silicate, Anhydrous	Not Established	Not Established	Not Established	Not Established
Note: Analogy can be made to potassium hydroxide exposure limit of 2mg/m ³ (15 min TWA)				

Notes

*Exposure limits may vary from time to time and from one jurisdiction to another. Check with local regulatory agency for the exposure limits in your area.

Appropriate Engineering Controls

Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Individual Protection Measures**Eye/Face Protection**

Eye and face protection should be worn for all uses. Wearing contact lenses is not recommended.

Skin Protection

Wear impervious gloves and wash hands after use.

Respiratory Protection

Not required under normal conditions of use. Do not breathe concentrated product. Avoid generations of mists. If product use will create mists, wear appropriate protective equipment to prevent inhalation of mists.

Other

An eyewash station should be made available in the immediate working area.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Liquid	Relative Density (water = 1)	9.02 lb/gal at 68°F (1.08 kg/L at 20°C)
Odour	Not Available	Solubility in Water	Soluble
Odour Threshold	Not Available	Solubility in Other Liquids	Not Available
pH	10	Partition Coefficient, n-Octanol / Water (Log Kow)	Not Available
Melting Point and Freezing Point	Not Available	Auto-ignition Temperature	Not Available
Initial Boiling Point and Boiling Range	Not Available	Decomposition Temperature	Not Available
Flash Point	None up to 100°C (PMCC)	Viscosity	Not Available
Evaporation Rate	Not Available	Flammability (solid, gas)	Not Applicable (Liquid)

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Vapour Density (air = 1)	Not Available	Upper and Lower Flammability or Explosive Limit	Not Applicable
Vapour Pressure	Not Available	Sensitivity to Static/Impact	Not Sensitive

SECTION 10. STABILITY AND REACTIVITY

Reactivity	Not known or expected.
Chemical Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Avoid contact with incompatible materials.
Incompatible Materials	Oxidizing materials, acids, bases.
Hazardous Decomposition Products	Not Applicable

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

☒ Inhalation ☒ Skin contact ☒ Eye contact ☒ Ingestion

Acute Toxicity	
LC50 (inhalation)	Potassium Silicate - >2.06 mg/m ³ (Rat)
LD50 (oral)	Potassium Silicate - >5000 mg/kg (Rat)
LD50 (dermal)	Potassium Silicate - >5000 mg/kg (Rat)
Notes	Not acutely toxic based on human or animal evidence.
Skin Corrosion / Irritation	May cause skin irritation, redness, rash.
Serious Eye Damage / Irritation	Redness. Pain. Tearing.
Inhalation	May cause respiratory irritation.
Ingestion	Not Expected.
STOT (Specific Target Organ Toxicity) - Single Exposure	Not Expected.
Aspiration Hazard	Not reported.
STOT (Specific Target Organ Toxicity) - Repeated Exposure	Not Expected.
Respiratory and/or Skin Sensitization	Not known to be a sensitizer.
Carcinogenicity	IARC reports inadequate evidence for classification as human carcinogen.
Notes	Target Organs: Eyes, lungs, skin .
Reproductive Toxicity	
Development of Offspring	Not reported.
Sexual Function and Fertility	Not reported.
Effects on or via Lactation	Not reported.

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Germ Cell Mutagenicity	Not expected to be a mutagen.
Interactive Effects	Not reported.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	Not expected to be toxic to the aquatic environment.		
	Ingredient	Species	LC/EC ₅₀
	Potassium Silicate	Ides Water Flea	146 mg/L (48h) >146 mg/L (24h)
Persistence and Degradability	Inorganic. Upon dilution will rapidly depolymerise into molecular species which are indistinguishable from natural dissolved silica.		
Bioaccumulative Potential	Not expected to bioaccumulate.		
Mobility in Soil	Not Available		
Other Adverse Effects	pH changes in water can cause negative local effects.		

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods	Canadian Environmental Protection Act: All ingredients are listed in the DSL. Dispose of in accordance with all federal, provincial/state, and local regulations. Consult with your local supplier for additional information.
RCRA	If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Technical Name (for N.O.S. entry)	Transport Hazard Class(es)	Packing Group
Canadian TDG Regulations*					
49 CFR/DOT*					
IATA Regulations*					
IMDG Code*					
Note:					
Notes: *NOT REGULATED FOR TRANSPORT					

SECTION 15. REGULATORY INFORMATION

US Federal Information						
Components listed below are present on the following U.S. Federal chemical lists:						
Ingredients	CAS Number	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313	
					Form R - Reporting Requirements	Supplier Notification
Potassium Silicate	1312-76-1	Yes	No	No	No	No

Safety, Health and	Canadian Environmental Protection Act (CEPA):
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Environmental Regulations	All components of this product are on the Canadian DSL.
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NFPA Ratings	Hazard or Risk Scale (0 = minimal, 4 = Significant)	HMIS Ratings	Hazard or Risk Scale (0 = minimal, 4 = Significant)
Health	2	Health	2
Flammability	0	Flammability	0
Reactivity	0	Physical Hazards	0
Specific Hazard	0	Personal Protection	X

SECTION 16. OTHER INFORMATION

Date of Creation	May 17, 2018
Date of Latest Revision	October 22, 2019
Disclaimer	This Safety Data Sheet (SDS) was prepared by iHazmat Regulatory Ltd., using information provided by the above supplier. To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

*SDS compliant with WHMIS 2015 and OSHA HAZCOM 2012