

STURDY STALK — POTASSIUM SILICATE SUPPLEMENT

# SAFETY DATA SHEET

#### STURDY STALK™ — POTASSIUM SILICATE SUPPLEMENT

## 1. IDENTIFICATION

Product name : Sturdy Stalk

Chemical family : Inorganic minerals in aqueous solution

Material uses : Hydroponic plant nutrient

Supplier/Manufacturer : Emerald Harvest

1399 Corporate Center Parkway Santa Rosa, CA 95407 USA

866-325-8235

Emergency contact : CHEMTREC, U.S.: 1-800-424-9300

International: +1-703-527-3887 (collect calls accepted)

## 2. HAZARD(S) IDENTIFICATION

#### **Emergency Overview**

Physical State : Liquid Color : Clear

Odor : Not available Signal Word : Warning

Hazard statements : May cause eye and skin irritation

Precautionary measures : Avoid contact with eyes. Wash thoroughly after handling.

OSHA/HCS statues : While this material is not considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

## Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : May cause vomiting.

Skin : Irritating to skin.

Eyes : Irritating to the eye.

#### **Potential chronic health effects**

Chronic effects : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.



STURDY STALK — POTASSIUM SILICATE SUPPLEMENT

Fertility effects : No known significant effects or critical hazards.

Target Organs : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Skin : Redness and itching.

Eyes : Symptoms may include: irritation, watering, redness

Medical conditions : None known.

aggravated by overexposure

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	%
Potassium silicate	1312-76-1	< 20

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. FIRST-AID MEASURES

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with

plenty of water for at least 20 minutes, occasionally lifting the upper and

lower eyelids. Get medical attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least

20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical

attention immediately.

Inhalation : In case of contact, immediately flush skin with plenty of water for at least

20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical

attention immediately.

Ingestion : Wash out mouth with water. Do not induce vomiting unless directed to

do so by medical personnel. Never give anything by mouth to an

unconscious person. Get medical attention immediately.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable

training. It may be dangerous to the person providing aid to give mouth-

to-mouth resuscitation.

Notes to physician : No specific treatment. Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been ingested or inhaled.

## 5. FIRE-FIGHTING MEASURES

Flammability of the product : Not flammable

**Extinguishing media** 

Suitable : Use extinguishing agent suitable for surrounding fire.

Not suitable : None known



#### STURDY STALK — POTASSIUM SILICATE SUPPLEMENT

Special exposure hazards

Hazardous thermal decomposition products

Special protective equipment:

for fire-fighters

No special precaution is required

Decomposition products may include the following materials:

sulfur oxides, phosphorus oxides, metal oxide/oxides

Fire-fighters should wear appropriate protective equipment and self-

contained breathing apparatus (SCBA) with a full face-piece operated in

positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

No action shall be taken involving any personal risk or without suitable Personal precautions

training. Evacuate surrounding areas. Do not touch or walk through

spilled material. Avoid breathing vapor or mist.

Provide adequate ventilation. Wear appropriate respirator when

ventilation is inadequate. Put on appropriate personal protective

equipment (see Section 8).

**Environmental precautions** Avoid dispersal of spilled material and runoff and contact with soil,

> waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or

air).

Methods for cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with

water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste

disposal container. Dispose of via a licensed waste disposal contractor.

Large spill Stop leak if without risk. Move containers from spill area. Approach

release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment

plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local

regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard

as the spilled product. Note: see Section 1 for emergency contact

information and Section 13 for waste disposal.

## 7. HANDLING AND STORAGE

Handling Put on appropriate personal protective equipment (see Section 8).

> Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse

container.

Store in accordance with local regulations. Store in original container Storage

protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.



#### STURDY STALK — POTASSIUM SILICATE SUPPLEMENT

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Engineering measures** 

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Personal protection**

Respiratory

: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Eyes

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental

controls



#### STURDY STALK — POTASSIUM SILICATE SUPPLEMENT

protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid Color : Clear

Odor : Not available

pH : 10

Melting/freezing point : Not available Relative density : Not available Solubility : Soluble

## 10. STABILITY AND REACTIVITY

Chemical stability : stable

Conditions to avoid : Not available

Incompatible materials : Reactive or incompatible with the following materials: oxidizing

materials, acids and alkalis.

Hazardous decomposition

products

: Not available

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not

occur.

## 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Potassium silicate	OSHA PEL	rat	1500 mg/kg	

## **Chronic Toxicity**

## **Irritation/Corrosion**

Skin : No data available

Eyes : No data available

Respiratory : No data available

**Sensitizer** 

Skin : No data available
Respiratory : No data available

#### Carcinogenicity

There is no data available.

#### Mutagenicity

There is no data available.

STURDY STALK — POTASSIUM SILICATE SUPPLEMENT

#### **Teratogenicity**

There is no data available.

## **Reproductive toxicity**

There is no data available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : No known significant effects or critical hazards.

## **Aquatic ecotoxicity**

Product/ingredient	Result	Species	Exposure
None			

## Persistence/degradability

## 13. DISPOSAL CONSIDERATIONS

Waste disposal

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to section 7. HANDLING AND STORAGE and section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. TRANSPORT INFORMATION

Regulatory Information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not listed					
IMDG Class	Not listed					
IATA-DGR Class	Not listed					

PG\*: Packing group Exemption to the above classification may apply.

AERG :

## 15. REGULATORY INFORMATION

HCS Classification : Not regulated.

U.S. federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or

exempted.

Clean air act section 112 (b)

**Hazardous Air Pollutants** 

(HAPs)

: Not listed



STURDY STALK — POTASSIUM SILICATE SUPPLEMENT

Clean air act section 602

Class I substances

: Not listed

Clean air act section 602

: Not listed

Class II substances

DEA list I chemicals

: Not listed

(Precursor chemicals)

**DEA list II chemicals** 

: Not listed

(Essential chemicals)

#### **SARA 313**

	Product name	CAS number	Concentration
Form R - Reporting requirements	None		
Supplier notification	None		

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### State regulations

(1) Massachusetts : Not listed (2)New York Not listed (3)New Jersey : Not listed (4)Pennsylvania Not listed

#### California Prop.65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
None				

## **16. OTHER INFORMATION**

: MAY CAUSE EYE IRRITATION. Label requirements

#### **Hazardous Material Information System (U.S.A)**

Health 1 Flammability 0 **Physical hazards** 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

#### National Fire Protection Association (U.S.A)

Health 1



STURDY STALK — POTASSIUM SILICATE SUPPLEMENT

Flammability : 0
Instability : 0
Special : none

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### <u> History</u>

Date of issue : 11/11/2015

Date of previous issue : none

Version : 1
Revised section(s) : Not available

Notice to reader

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.