



Safety Data Sheet

Harvest-to-Harvest™ Organic 1-0-0

1. Product Identification

Product Identifier: Harvest-to-Harvest Organic 1-0-0

Trade Name: Harvest-to-Harvest™ Organic 1-0-0

Synonyms: Food Hydrolysate

Manufacturer Information: California Safe Soil, LLC
4700 Lang Ave, Bay C
McClellan, CA 95652

CAS No.: Mixture

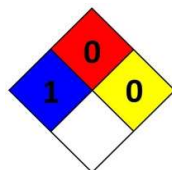
Chemical Family: Protein Hydrolysate

Intended Use: This product's intended use is as an agricultural input into crop production systems as a biostimulant. It is intended to be soil applied through conventional injection and irrigation systems.

Restrictions of use: Do not store diluted or mixed with alkaline substances as the product will become unstable and produce CO₂ gas as it degrades. Jar test any intended alkaline stock solutions for compatibility before mixing and applying.

2. Hazards Identification

NFPA



GHS Hazard Classification:

Skin Irritant: Category 2 – Causes skin irritation

Eye Irritant: Category 2A – Causes serious eye irritation



Danger!
Causes Serious Eye Irritation



Warning!
Causes Skin Irritation

Potential Health Effects

Inhalation:

None Known

Ingestion:

Harmful if swallowed in its concentrated form. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Skin Contact:

Contact with concentrated solution may cause slight irritation.

Eye Contact:

Eye contact with concentrated solution will cause eye irritation, and if left untreated can cause severe irritation and blurred vision.

Chronic Exposure:

None known.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or eye problems, should avoid contact with the concentrated solution, or take proper precautions.

3. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Food Hydrolysate	100209-45-9	96 - 97%	No
Lactic Acid	79-33-4	3 - 4%	No

4. First Aid Measures

Inhalation:

Remove to fresh air.

Ingestion:

Rinse mouth with water and drink plenty of water. Do not induce

vomiting. If symptoms persist, call and consult a physician.

Skin Contact:

In case of skin irritation, wash off with plenty of water for at least 5 minutes and remove contaminated clothing and shoes as a precaution. Wash clothing before reuse. Consult a physician if symptoms persist.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. If symptoms persist, consult a physician.

5. Fire Fighting Measures

Flammable Properties:

Slightly Flammable according to HMIS criteria

Fire Extinguishing Media:

Water, dry chemical, foam or carbon dioxide. Water spray may be used to keep fire exposed containers cool.

Hazardous Combustion Products:

None

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Water may be used to flush spills away from exposures and to dilute spills to non-flammable mixtures.

6. Accidental Release Measures

Personal Precautions:

See Section 8

Environmental Precautions:

No special environmental precautions required

Methods for clean up:

Contain spill. Absorb liquids by covering with clay or other absorbent material and dispose of properly. Alternatively; the product can be vacuumed into a container and disposed of in accordance with state/federal regulations for the proper disposal of fertilizing materials.

7. Handling and Storage

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Do

not allow the material to freeze as it will affect the performance of the product.

8. Exposure Controls/Personal Protection

Engineering Controls:

Ensure adequate ventilation in confined areas. Maintain good conditions of industrial hygiene (store in clean, well maintained areas).

Respiratory Protection:

None required

Hand Protection:

Protective gloves are recommended

Skin Protection:

Wear clothing consistent with good practices for handling non-hazardous chemicals to avoid skin contact.

Eye Protection:

Safety Glasses or Goggles

9. Physical and Chemical Properties

Appearance:

Brown, viscous liquid.

Odor:

Slight vinegar, musty odor.

Solubility:

Completely soluble in water.

Density:

1.05 -1.06

pH:

3.0 – 3.3

Boiling Point:

100C (212F)

Vapor Density (Air=1):

N/A

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Oxides of carbon may form when heated to decomposition.

Hazardous Polymerization:

Will not occur.

Incompatible Materials:

None Known

Conditions to Avoid:

Storage conditions above 110F, freezing, and ignition sources.

11. Toxicological Information

N/A

12. Ecological Information

N/A

13. Disposal Considerations

Dispose of in accordance with state/federal regulations for the proper disposal of fertilizing materials. State and local disposal regulations may differ from federal disposal regulations.

14. Transport Information

Domestic (Land, D.O.T.)

Not Regulated

International (Water, I.M.O.)

None Known

15. Other Information

Revision Information:

Date of issue: November 15, 2017

Disclaimer: The information provided on this MSDS is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for the safe handling, use, storage, and transportation of the product and is not considered as a warranty or quality specification. The information provided on this MSDS is specific material designated only. Furthermore, it is the responsibility of the customer to determine and maintain the conditions for safe use of this product.