SAFETY DATA SHEET

SIGMA AgriScience
2565 FM 1096
Boling, Texas 77420

In Case of Emergency, Call
Information: 979-657-2893
CHEMTREC: 1-800-424-9300

1. CHEMICAL IDENTIFICATION

Product Name:	Sigma Microalgae
Recommended Use:	Soil Amendment
Manufacturer Address:	Sigma AgriScience, LLC 2565 FM 1096 Boling, TX 77420
Telephone number:	+1 281 706 8171
Email:	info@sigma-agri.com
Website:	www.sigma-agri.com
Emergency phone number	+1 281 706 8171

2. HAZARDS IDENTIFICATION

Classification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin Irritant (Category 2)
Eye Irritant (Category 2B)
Acute, Oral (Category 4

Pictogram:



Signal Word:	Warning
Hazard Statement(s):	H315 Causes skin irritation H320 Causes eye irritation H302 Harmful if swallowed

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical name	CAS No.	%	
Water	7732-18-5	89.5	See Section 8 for Occupational Exposure Limits
Organic Matter	NA	9.0	
Phosphoric Acid	7664-38-2	1.5	

4. FIRST AID MEASURES

Eye Contact:	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. P337+P317 If eye irritation persists: Get medical advice/attention.
Skin Contact:	P264 Wash hands thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: wash with plenty of water. P332+P317 If skin irritation occurs: Get medical advice/attention P362+P364 Take off contaminated clothing and wash it before reuse. P270 Do not eat, drink or smoke when using this product.
Inhalation:	Move person to fresh air. P304+P312: IF INHALED: Call a POISON CENTER or doctor if you feel unwell. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.
Ingestion:	P301+P317 If swallowed: Call poison control center or doctor immediately for treatment advice.

5. FIRE FIGHTING MEASURES

Flash Point:	Not applicable.
Extinguishing Media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Procedures:	Use water spray to keep fire exposed containers cool. Fight fire from protected location or maximum possible distance. Dike area to prevent water runoff. Firemen should wear self-contained breathing apparatus and protective clothing.
Unusual Fire Hazards:	None.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear personal protective equipment.
Environmental Precautions:	Keep people and animals away from and upwind of spill/leak.
Methods for Containment:	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up:	Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Do not contaminate water, food or feed by storage or disposal.

Handling:	Handle in accordance with good industrial hygiene and safety practice. Do not contaminate other products or feed by unapproved storage or disposal processes.
Storage Conditions:	Store upright in a dry, cool and well-ventilated place. Keep container closed when not in use. Do not store with strong acids or oxidizers. Keep out of reach of children and animals. Keep/store only in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Occupational Exposure Limit Values

Ingredient	CAS No.	Value	Control Parameters	Basis
Phosphoric Acid	7664-38-2	TWA	1 mg/m3	ACGIH Threshold Limit Values (TLV)
		STEL	3 mg/m3	ACGIH Threshold Limit Values (TLV)
		TWA	1 mg/m3	NIOSH Recommended Exposure Limits
		ST	3 mg/m3	NIOSH Recommended Exposure Limits
		TWA	1 mg/m3	Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		PEL	1 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		STEL	3 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2 Exposure Controls

Engineering Controls:	Use only in adequately ventilated areas.
Eye Protection:	Eye contact with the material should be avoided through the use of chemical safety glasses, goggles, or a face-shield.
Respiratory Protection:	Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Dermal Protection:	Wear appropriate protective clothing to prevent skin contact. Neoprene, butyl, or nitrile rubber gloves are recommended. Remove and wash contaminated clothing before reuse. Wash separately from other laundry.
Other Precautions:	An adequate supply of clean, portable water should be available to allow thorough flushing of skin and eyes in the event of contact with this compound. Do not get in eyes or get in or on clothing. Avoid breathing vapor or spray mist. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Wash thoroughly with soap and water after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green liquid
Odour	Marine
Odour threshold:	No data available
pH @ 20°C:	3-4
Melting point/ Freezing point:	Approx. 32°F (0°C)
Initial boiling point and boiling range:	Approx. 212°F (100°C)
Flash point:	No data available
Evaporation rate:	No data available
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Solubility(ies):	Water Soluble
Partition coefficient; n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available

10. STABILITY AND REACTIVITY

Chemical Stability:	This product is stable under recommended storage conditions.
Incompatibility:	Oxidizing agents.
Decomposition Products:	None known.
Hazardous polymerization:	Hazardous polymerization does not occur.

11. TOXICOLOGICAL DATA

No toxicological information available for the mixture.

Ingestion:	No data available for the mixture.
Skin Contact:	No data available for the mixture.
Eye Contact:	No data available for the mixture.
Inhalation LC_{50}:	No data available for the mixture.
Allergy Sensitization:	No data available for the mixture.
Carcinogenicity:	No data available for the mixture.

Phosphoric Acid CAS 7664-38-2

Acute Toxicity	LD50 (Oral/Rat)	1,530 mg/kg
	LD50 (Dermal/Rabbit)	2,740 mg/kg
	LD50 (Inhalation/Rabbit)	1.690 mg/L
	Estimate, Oral (Calculated)	1,471 mg/kg

12. ECOLOGICAL DATA

Aquatic:	No information available.
Avian:	No information available.
Invertebrates:	No information available.
Algae:	No information available.
Bees:	No information available.
Degradability:	Product is readily biodegradable.

13. DISPOSAL CONSIDERATION

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in accordance with applicable federal, state or local procedures.

Containers: Procedures in accordance with state and local regulations must be observed.

14. TRANSPORT INFORMATION

DOT:	Not Regulated.
TDG:	Not Regulated.
ICAO/IATA:	Not Regulated.
IMDG/IMO:	Not Regulated.
UN CLASSIFICATION:	Not classified as a hazardous material for transport.

15. REGULATORY DATA

U.S. Federal Regulations:

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories:

Acute Health Hazard:	No
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden release of pressure hazard:	No
Reactive Hazard:	No

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122-42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

U.S. State Regulations:

California Proposition 65 – This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations – N/A
International Inventories – N/A

16. OTHER INFORMATION

Date of Last Revision: January 2024

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