# SAFETY DATA SHEET

**SIGMA AgriScience**
**2565 FM 1096**
**Boling, Texas 77420**

**In Case of Emergency, Call Information: 281-706-8171**
**CHEMTREC: 1-800-424-9300**

## 1. CHEMICAL IDENTIFICATION

| | |
|---|---|
| Product Name: | SIGMA 4-3-2 Bio 2x |
| Principal Functioning Agents: | Nitrogen, Phosphate, Soluble Potash and Mycorrhizal Fungi |
| Recommended Use: | Organic Granular Fertilizer |
| Manufacturer Address: | Sigma AgriScience, LLC<br>2565 FM 1096<br>Boling, TX 77420 |

## 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

GHS Label Elements, including precautionary statements

This product contains no substances which, at their given concentration, are considered to be hazardous to health.

**Precautionary Statements – Prevention**
P202 – Do not handle until all safety precautions have been read and understood.
P281 – Use personal protective equipment as required.

**Precautionary Statements – Response**
P308 + P313 – If exposed or concerned: Get medical advice or attention.

**Precautionary Statements – Storage**
P402 + P404 – Store in a dry place. Store in a closed container.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Material | % by weight | CAS# | ACGIH TLV | OSHA-PEL |
|---|---|---|---|---|
| Nitrogen | 4.0% | 7727-37-9 | Not Established | Not Established |
| Phosphate | 3.0% | 1314-46-3 | Not Established | Not Established |
| Soluble Potash | 2.0% | N/A | Not Established | Not Established |
| Calcium | 9.0% | 7440-70-2 | Not Established | Not Established |
| Magnesium | 0.6% | 7439-95-4 | Not Established | Not Established |
| Iron (FE) | 0.15% | 7439-89-6 | Not Established | Not Established |
| Water | Remaining % | N/A | Not Established | Not Established |

## 4. FIRST AID MEASURES

| | |
|---|---|
| Eye Contact: | Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. |
| Skin Contact: | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice. |
| Inhalation: | Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice. |
| Ingestion: | Call poison control center or doctor immediately for treatment advice |

## 5. FIRE FIGHTING MEASURES

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|---|---|
| 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.

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|---|---|
| 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: | Keep away from open flames, hot surfaces and sources of ignition. Keep in a dry, cool and well-ventilated place. Keep out of reach of children and animals. Keep/store only in original container. |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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|---|---|
| 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: | For dust, splash, mist or spray exposures, wear a filtering mask. |
| Dermal Protection: | Wear appropriate protective clothing to prevent skin contact. Applicators and other handlers must wear chemical resistant gloves, long pants, long-sleeved shirt, shoes and socks. 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

| | |
|---|---|
| Odor: | Earthy Smell. |
| Physical State: | Granular |
| Color: | Brown |
| Vapor Pressure: | No information available. |
| Bulk Density: | No information available |
| Molecular Weight: | No information available |
| Viscosity: | No information available Below $0^{o}$. |
| Melting Point: | No information available |
| Flash Point: | N/A |
| Specific Gravity: | No information available |
| pH: | No information available |
| Water solubility: | Slightly Soluble |
| Refractive Index: | No information available |

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL DATA

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|---|---|
| Ingestion: | Non-toxic natural bacteria. |
| Skin Contact: | May cause minor irritation. |
| Eye Contact: | May cause minor irritation. |
| Inhalation $LC_{50}$: | May cause minor irritation. |
| Allergy Sensitization: | No information available. |
| Carcinogenicity: | Non-Carcinogentic. |

## 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. TRANSPORTION DATA

| | |
|---|---|
| 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:**

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|---|---|
| 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).

Threshold Limit Value: OSHA PEL – N/A
ACGIH TLV – N/A
NOTE: Threshold limit values defined by local regulations must be observed.

**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 15, 2024

NFPA and HMIS ratings assigned to this product are based on the hazards of its ingredient (s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product SDS.

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