

# SAFETY DATA SHEET



Revision date 14-Sep-2022

Revision Number 1

## 1. Identification

### Product identifier

Product Name CerealStar™ Select ST

### Other means of identification

Product Code(s) 000162

Synonyms None

Registration Number(s) 45002-41

### Recommended use of the chemical and restrictions on use

Recommended use Seed treatment

Restrictions on use Follow label instructions

### Details of the supplier of the safety data sheet

#### Company Address

ALBAUGH LLC  
1525 NE 36th St,  
Ankeny, IA 50021 USA

#### Emergency telephone number

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call  
CHEMTREC Day or Night

- Within USA and Canada: 1-800-424-9300
- For Medical Emergencies Only, Call (888) 347-6732 • Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by US EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

## 2. Hazard(s) identification

### Classification

Acute toxicity - Inhalation (Dusts/Mists)

Category 4

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

Warning

#### Hazard statements

Harmful if inhaled

**Appearance** Liquid**Physical state** Liquid**Odor** No information available**Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 Call a POISON CENTER or doctor if you feel unwell

**Other information**

May be harmful if swallowed. May be harmful in contact with skin. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

### 3. Composition/information on ingredients

**Substance**

Not applicable.

**Mixture**

| Chemical name     | CAS No      | Weight-%    | Active Ingredient |
|-------------------|-------------|-------------|-------------------|
| Thiamethoxam      | 153719-23-4 | 10.64-11.76 | X                 |
| Ethylene Glycol   | 107-21-1    | 2.85-3.15   |                   |
| Mefenoxam         | 70630-17-0  | 1.38-1.52   | X                 |
| Ipconazole        | 125225-28-7 | 0.39-0.47   | X                 |
| Other Ingredients | PROPRIETARY | >80.0       |                   |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

**Description of first aid measures****General advice**

Show this safety data sheet to the doctor in attendance.

**Inhalation**

Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.

**Eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact**

Wash skin with soap and water.

**Ingestion**

Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.

**Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Coughing and/ or wheezing. Difficulty in breathing.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## **5. Fire-fighting measures**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**Specific hazards arising from the chemical** No information available.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation. Avoid breathing vapors or mists. Use personal protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**Methods and material for containment and cleaning up**

**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**

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children.

## 8. Exposure controls/personal protection

### Control parameters

#### Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

| Chemical name               | ACGIH TLV   | OSHA PEL  | NIOSH |
|-----------------------------|---|---|-------|
| Ethylene Glycol<br>107-21-1 | STEL: 50 ppm vapor fraction<br>STEL: 10 mg/m <sup>3</sup> inhalable<br>particulate matter, aerosol only<br>TWA: 25 ppm vapor fraction | (vacated) Ceiling: 50 ppm<br>(vacated) Ceiling: 125 mg/m <sup>3</sup> | -     |

#### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

### Appropriate engineering controls

#### Engineering controls

Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

No special protective equipment required.

#### Skin and body protection

No special protective equipment required.

#### Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

#### General hygiene considerations

Do not eat, drink or smoke when using this product.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|                |                          |
|----------------|--------------------------|
| Physical state | Liquid                   |
| Appearance     | Liquid                   |
| Color          | red                      |
| Odor           | No information available |
| Odor threshold | No information available |

#### Property

| Property                       | Values            | Remarks • Method |
|--------------------------------|-------------------|------------------|
| pH                             | 5.0 - 6.0         |                  |
| pH (as aqueous solution)       |                   |                  |
| Melting point / freezing point | No data available |                  |
| Boiling point / boiling range  | No data available |                  |
| Flash point                    | No data available |                  |
| Evaporation rate               | No data available |                  |
| Flammability (solid, gas)      | No data available |                  |

**Flammability Limit in Air**

**Upper flammability or explosive limits** No data available

**Lower flammability or explosive limits** No data available

**Vapor pressure** No data available

**Vapor density** No data available

**Relative density** No data available

**Water solubility** No data available

**Solubility(ies)** No data available

**Partition coefficient** No data available

**Autoignition temperature** No data available

**Decomposition temperature**

**Kinematic viscosity** 1448 cSt (24°C); 1336 cSt (38°C)

**Dynamic viscosity** No data available

**Other information**

**Explosive properties** No information available

**Oxidizing properties** No information available

**Softening point** No information available

**Molecular weight** No information available

**VOC Content (%)** No information available

**Liquid Density** 1.07 g/cm<sup>3</sup> (8.93 pounds/gallon) at 24°C

**Bulk density** No information available

*\*Listed density is an approximate value and does not necessarily represent that of a specific batch*

**10. Stability and reactivity**

**Reactivity** No information available.

**Chemical stability** Stable under normal conditions.

**Possibility of hazardous reactions** None under normal processing.

**Conditions to avoid** Excessive heat.

**Incompatible materials** None known based on information supplied.

**Hazardous decomposition products** None known based on information supplied.

**11. Toxicological information****Information on likely routes of exposure****Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** May be harmful in contact with skin.

**Ingestion** May be harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Coughing and/ or wheezing.

**Acute toxicity****Numerical measures of toxicity**

No information available

Oral LD50 > 5000 mg/kg  
 Dermal LD50 > 5000 mg/kg  
 Inhalation LC50 > 2.16 mg/l

**Component Information**

| Chemical name               | Oral LD50            | Dermal LD50                                      | Inhalation LC50         |
|-----------------------------|----------------------|--|-------------------------|
| Thiamethoxam<br>153719-23-4 | = 1563 mg/kg ( Rat ) | > 2000 mg/kg ( Rat )                             | > 3.72 mg/L ( Rat ) 4 h |
| Ethylene Glycol<br>107-21-1 | = 4700 mg/kg ( Rat ) | = 10600 mg/kg ( Rat ) = 9530<br>μL/kg ( Rabbit ) | -                       |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Slightly irritating to the skin.  
**Serious eye damage/eye irritation** Mildly irritating.  
**Respiratory or skin sensitization** Did not cause sensitization on laboratory animals.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** No information available.  
 The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name               | ACGIH | IARC     | NTP | OSHA |
|-----------------------------|-------|----------|-----|------|
| Thiamethoxam<br>153719-23-4 | -     | Group 2A | -   | -    |

**Legend****IARC (International Agency for Research on Cancer)**

Group 2A - Probably Carcinogenic to Humans Group 2A\*: Not carcinogenic in rats or mice. Listed as Category 2A by the International Agency for Research on Cancer (IARC) but expert opinion based on weight of evidence is that classification as a carcinogen is not warranted.

**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target organ effects** Respiratory system, Eyes, Skin, Central nervous system.  
**Aspiration hazard** No information available.  
**Other adverse effects** No information available.  
**Interactive effects** No information available.

**12. Ecological information**

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

| Chemical name               | Algae/aquatic plants  | Fish  | Toxicity to microorganisms | Crustacea                                |
|-----------------------------|---|---|----------------------------|--|
| Ethylene Glycol<br>107-21-1 | EC50: 6500 - 13000mg/L<br>(96h, Pseudokirchneriella<br>subcapitata) | LC50: =41000mg/L (96h,<br>Oncorhynchus mykiss)<br>LC50: 14 - 18mL/L (96h,<br>Oncorhynchus mykiss)<br>LC50: =27540mg/L (96h,<br>Lepomis macrochirus)<br>LC50: =40761mg/L (96h, | -                          | EC50: =46300mg/L (48h,<br>Daphnia magna) |

|  |  |  |  |  |
|--|--|--|--|--|
|  |  | Oncorhynchus mykiss)<br>LC50: 40000 -<br>60000mg/L (96h,<br>Pimephales promelas)<br>LC50: =16000mg/L (96h,<br>Poecilia reticulata) |  |  |
|--|--|--|--|--|

**Persistence and degradability** No information available.

**Bioaccumulation** There is no data for this product.

#### Component Information

| Chemical name               | Partition coefficient |
|-----------------------------|-----------------------|
| Ethylene Glycol<br>107-21-1 | -1.93                 |

**Other adverse effects** No information available.

### 13. Disposal considerations

#### Disposal methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**California Hazardous Waste Status** This product contains one or more substances that are listed with the State of California as a hazardous waste.

### 14. Transport information

**DOT** Not regulated

### 15. Regulatory information

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** 45002-41

**EPA Pesticide Label** CAUTION. Harmful if swallowed, inhaled or absorbed through the skin. Causes moderate eye irritation.

#### International Inventories

|                      |                 |
|----------------------|-----------------|
| <b>TSCA</b>          | Does not comply |
| <b>DSL/NDSL</b>      | Does not comply |
| <b>EINECS/ELINCS</b> | Does not comply |
| <b>ENCS</b>          | Does not comply |
| <b>IECSC</b>         | Does not comply |
| <b>KECL</b>          | Does not comply |
| <b>PICCS</b>         | Does not comply |
| <b>AIIC</b>          | Does not comply |

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AIIC** - Australian Inventory of Industrial Chemicals

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name              | SARA 313 - Threshold Values % |
|----------------------------|-------------------------------|
| Ethylene Glycol - 107-21-1 | 1.0                           |

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical name               | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|-----------------------------|--------------------------|------------------------------------|
| Ethylene Glycol<br>107-21-1 | 5000 lb                  | -                                  |

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals:

| Chemical name              | California Proposition 65 |
|----------------------------|---------------------------|
| Ethylene Glycol - 107-21-1 | Developmental             |

**U.S. State Right-to-Know Regulations**

| Chemical name               | New Jersey | Massachusetts | Pennsylvania |
|-----------------------------|------------|---------------|--------------|
| Water<br>7732-18-5          | -          | -             | X            |
| Ethylene Glycol<br>107-21-1 | X          | X             | X            |

**16. Other information**

|             |                         |                       |                           |                              |
|-------------|-------------------------|-----------------------|---------------------------|------------------------------|
| <b>NFPA</b> | <b>Health hazards</b> 2 | <b>Flammability</b> 0 | <b>Instability</b> 0      | <b>Special hazards</b> -     |
| <b>HMIS</b> | <b>Health hazards</b> 2 | <b>Flammability</b> 0 | <b>Physical hazards</b> 0 | <b>Personal protection</b> X |

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend Section 8: Exposure controls/personal protection**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database



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European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

**Revision date** 14-Sep-2022  
**Revision Note** No information available.

**Disclaimer**

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**End of Safety Data Sheet**