SAFETY DATA SHEET



Revision date 16-Sep-2022 Revision Number 1

1. Identification

Product identifier

Product Name Cereal Premix 4.0 ST

Other means of identification

Product Code(s) 45002-28

Synonyms None

Registration Number(s) 45002-28

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 Certain sections of this SDS are superseded by federal law governed by US EPA for a registered pesticide.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
Serious eye damage/eye irritation	Category 2B

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Warning

Hazard statements

Harmful if inhaled

Causes eye irritation



Appearance Liquid Physical state Liquid Odor mild sweet

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

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. Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No	Weight-%	Active Ingredient
Difenoconazole	119446-68-3	8.17-9.03	X
Tolclofos-methyl	57018-04-9	6.89-7.61	X
Thiabendazole	148-79-8	4.80-5.30	X
Ethylene Glycol	107-21-1	4.75-5.25	
Mefenoxam	70630-17-0	3.42-3.78	X
Sulfonic acid	68439-57-6	0.68-0.83	
Other Ingredients	PROPRIETARY	>65.0	

^{*}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 immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Get medical attention if irritation develops and persists.

Remove contact lenses, if present and easy to do. Continue rinsing.

Skin contact Wash skin with soap and water.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. 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

5. Fire-fighting measures

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 Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Ensure adequate ventilation. Avoid breathing vapors or mists.

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

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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	STEL: 50 ppm vapor fraction	(vacated) Ceiling: 50 ppm	-
107-21-1	STEL: 10 mg/m³ inhalable	(vacated) Ceiling: 125 mg/m ³	
	particulate matter, aerosol only		
	TWA: 25 ppm vapor fraction		

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 If splashes are likely to occur, wear safety glasses with side-shields. None required for

consumer use.

Skin and body protectionNo 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 Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this

product.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state
Appearance
Color
Odor
Liquid
opaque; white
mild sweet

Odor threshold No information available

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Property Values Remarks • Method

pH 4.5 - 5.5

pH (as aqueous solution)

Melting point / freezing point

Boiling point / boiling range
Flash point
Flash point
Flammability (solid, gas)

No data available
No data available
No data available
No data available

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressureNo data availableVapor densityNo data availableRelative densityNo data availableWater solubilityNo data availableSolubility(ies)No data availablePartition coefficientNo data availableAutoignition temperatureNo data available

Decomposition temperature

Kinematic viscosity 2032 cSt (24°C); 1440 cSt (42°C)

Dynamic viscosity No data available

Other information

Explosive properties

Oxidizing properties

Softening point

Molecular weight

VOC Content (%)

No information available
No information available
No information available
No information available

Liquid Density 1.08 g/cm3 (9.01 pounds/gallon) at 24°C

Bulk density No information available

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 materialsNone 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. Causes eye irritation. May

cause redness, itching, and pain.

Skin contact May be harmful in contact with skin.

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

Ingestion May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause redness and tearing of the eyes. Coughing and/ or wheezing.

Acute toxicity

Numerical measures of toxicity

 Oral LD50
 3129 mg/kg

 Dermal LD50
 > 5000 mg/kg

 Inhalation LC50
 > 2.14 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Difenoconazole	= 1453 mg/kg (Rat)	> 2010 mg/kg (Rabbit) = 2010	> 3300 mg/m ³ (Rat) 4 h > 45
119446-68-3		mg/kg (Rat)	mg/m³ (Rat)4 h
Tolclofos-methyl	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat) > 5 g/kg	> 3.32 mg/L (Rat) 4 h
57018-04-9	= 5 g/kg (Rat)	(Rat)	
Thiabendazole	= 3100 mg/kg (Rat)	-	-
148-79-8	= 2080 mg/kg (Rat)		
Ethylene Glycol	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat) = 9530	-
107-21-1		μL/kg (Rabbit)	
Sulfonic acid	= 2220 mg/kg (Rat)	> 740 mg/kg (Rabbit)	> 52 mg/L (Rat) 4 h
68439-57-6			

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.

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 Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

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Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethylene Glycol	EC50: 6500 - 13000mg/L	LC50: =41000mg/L (96h,	-	EC50: =46300mg/L (48h,
107-21-1	(96h, Pseudokirchneriella	Oncorhynchus mykiss)		Daphnia magna)
	subcapitata)	LC50: 14 - 18mL/L (96h,		_
		Oncorhynchus mykiss)		
		LC50: =27540mg/L (96h,		
		Lepomis macrochirus)		
		LC50: =40761mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: 40000 -		
		60000mg/L (96h,		
		Pimephales promelas)		
		LC50: =16000mg/L (96h,		
		Poecilia reticulata)		
Sulfonic acid	-	LC50: 1.0 - 10.0mg/L	-	-
68439-57-6		(96h, Brachydanio rerio)		
		LC50: =12.2mg/L (96h,		
		Brachydanio rerio)		

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient	
Ethylene Glycol 107-21-1	-1.93	
Sulfonic acid 68439-57-6	-1.3	

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.

14. Transport information

DOT Not regulated

15. Regulatory information

U.S. EPA Label Information

EPA Pesticide Registration Number 45002-28

EPA Pesticide Label CAUTION. Harmful if swallowed. Causes moderate eye irritation.

International Inventories

TSCA Does not comply DSL/NDSL Does not comply

EINECS/ELINCS

ENCS

Does not comply

Legend:

PICCS

AIIC

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

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

Does not comply

Does not comply

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 %
Thiabendazole - 148-79-8	1.0
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	5000 lb	-
107-21-1		

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	-	-	X
7732-18-5			
Thiabendazole	X	-	-
148-79-8			
Ethylene Glycol	X	X	X
107-21-1			

16. Other information

NFPA Health hazards 3 Flammability 1 Instability 0 Special hazards - Health hazards 3 Flammability 1 Physical hazards 0 Personal protection 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

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 16-Sep-2022

Revision NoteNo information available.

Disclaimer

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End of Safety Data Sheet