# SAFETY DATA SHEET



Revision date 07-Oct-2020 Revision Number 3

# 1. Identification

**Product identifier** 

Product Name Koverall Fungicide

Other means of identification

**Product Code(s)** 42750-389

UN number or ID number UN3077

Synonyms None

Registration Number(s) 42750-389

Recommended use of the chemical and restrictions on use

Recommended use Fungicide

**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, Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

For Medical Emergencies Only:

• Call Albaugh LLC Day or Night within USA and Canada: 1-888-347-6732

# 2. Hazard(s) identification

# Classification

Serious eye damage/eye irritation	Category 2B
Skin sensitization	Category 1

### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

Warning

#### Hazard statements

Causes eye irritation

May cause an allergic skin reaction



Appearance Physical state Solid Odor Musty

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing must not be allowed out of the workplace

Wear protective gloves

### **Precautionary Statements - Response**

Specific treatment (see .? on this label)

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 ON SKIN: Wash with plenty of water and soap

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Unknown acute toxicity

#### Other information

Harmful to aquatic life with long lasting effects. Very toxic to aquatic life.

# 3. Composition/information on ingredients

### **Substance**

Not applicable.

### <u>Mixture</u>

Chemical name	CAS No	Weight-%	Active Ingredient
Mancozeb	8018-01-7	75	X
Ethylene Thiourea	96-45-7	<25	

<sup>\*</sup>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.

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.

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**Skin contact** Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation

or allergic reactions see a physician.

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

vomiting. Call a physician.

Most important symptoms and effects, both acute and delayed

**Symptoms** Itching. Rashes. Hives.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

# 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

Product is or contains a sensitizer. May cause sensitization by skin contact.

**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. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

**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 contact with

skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear

suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

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
Mancozeb 8018-01-7	-	(vacated) Ceiling: 5 mg/m³ Ceiling: 5 mg/m³ Mn	IDLH: 500 mg/m³ Mn TWA: 1 mg/m³ Mn STEL: 3 mg/m³ Mn

#### **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** Wear safety glasses with side shields (or goggles). None required for consumer use.

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

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.

Solid

# 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state

Appearance

Color

yellow; brown

**Odor** Musty

Odor threshold No information available

Property Values Remarks • Method

**pH** No data available

#### 42750-389 - Koverall Fungicide

pH (as aqueous solution)

Melting point / freezing point 192.22 203.89

Initial boiling point and boiling rangeNo data available

Not applicable

Flash point No data available
Evaporation rate No data available
Flammability No data available

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressure 0.013 @ 25 °C

Relative vapor density

Relative density

No data available

No data available

Soluble in water 6

Water solubility Soluble in water 6.2 @ 20 °C

Solubility(ies) No data available

Partition coefficient n-octanol/water: Mancozeb: 2.14x101

Autoignition temperature No data available

**Decomposition temperature** 

Kinematic viscosity

No data available

No data available

No data available

Other information

Explosive propertiesNo information availableOxidizing propertiesNo information availableSoftening pointNo information availableMolecular weightNo information availableVOC contentNo information availableLiquid DensityNo information available

Bulk density 0.6-0.7

# 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 None known based on information supplied.

**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.

**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 cause sensitization by skin contact. Specific test data for the substance or mixture is

not available. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons. (based on components).

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

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

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

**Symptoms** Itching. Rashes. Hives. May cause redness and tearing of the eyes.

**Acute toxicity** 

**Numerical measures of toxicity** 

#### The following values are calculated based on chapter 3.1 of the GHS document

#### Unknown acute toxicity

 Oral LD50
 > 5,000 mg/kg

 Dermal LD50
 > 5,000 mg/kg

 Inhalation LC50
 > 5.14 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Mancozeb	= 5 g/kg (Rat)	> 5000 mg/kg (Rabbit) > 10	-
8018-01-7		g/kg (Rat) > 5 g/kg (Rabbit)	
Ethylene Thiourea	= 545 mg/kg (Rat)	-	-
96-45-7	= 1832 mg/kg (Rat)		

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

**Skin corrosion/irritation**No classification is proposed, based on conclusive negative data.

Serious eye damage/eye irritation Classification not possible.

**Respiratory or skin sensitization** May cause sensitization by skin contact.

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
Ethylene Thiourea	-	Group 3	Reasonably Anticipated	X
96-45-7			·	

#### Legend

#### IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

# **NTP (National Toxicology Program)**

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

# OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Target organ effects Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood, Reproductive

system, Thyroid, Lymphatic 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. Harmful to aquatic life with long lasting effects.

	Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
				Hilotoorganisms	
	Mancozeb	-	LC50: =1mg/L (48h,	-	-
	8018-01-7		Lepomis macrochirus)		
Г	Ethylene Thiourea	-	LC50: 5600 - 10000mg/L	-	LC50: 21.6 - 32.2mg/L
	96-45-7		(96h, Poecilia reticulata)		(48h, Daphnia magna)

Persistence and degradability No information available.

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

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.

US EPA Waste Number U116

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

TDG Not regulated

Marine pollutant name Water.

**Description** UN3077, Environmentally hazardous substance, solid, n.o.s. (Water), 9, III

DOT

Notes Not regulated for transportation if shipped in Non Bulk packaging. The classification below

pertains to the shipment in Bulk packaging. (Bulk shipment is > 882 lbs.)

UN number or ID number UN307

**Proper shipping name** Environmentally hazardous substance, solid, n.o.s.

Transport hazard class(es) 9
Packing group

**Special Provisions** 146, 335, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33, 8

DOT Marine Pollutant P
Marine pollutant Water

**Description** UN3077, Environmentally hazardous substance, solid, n.o.s. (Water), 9, III, Marine

pollutant

IATANot regulatedTechnical NameMancozeb

**Description** UN3077, Environmentally hazardous substance, solid, n.o.s. (Mancozeb), 9, III

ICAO (air) Not regulated

**Description** UN3077, Environmentally hazardous substance, solid, n.o.s. (Mancozeb), 9, III

 IMDG
 Not regulated

 Marine Pollutant
 Mancozeb

**Description** UN3077, Environmentally hazardous substance, solid, n.o.s. (Mancozeb), 9, III, Marine

pollutant

# 15. Regulatory information

# U.S. EPA Label Information

# EPA Pesticide Registration Number 42750-389

**EPA Pesticide Label**CAUTION. Harmful if absorbed through skin. Causes moderate eye irritation. Prolonged or

frequently repeated skin contact may cause allergic reactions in some individuals.

# **International Inventories**

TSCA Complies
DSL/NDSL Does not comply
EINECS/ELINCS Does not comply
ENCS Complies
IECSC Complies
KECL Complies

IECSCCompliesKECLCompliesPICCSCompliesAIICComplies

### 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 %	
Mancozeb - 8018-01-7	1.0	
Ethylene Thiourea - 96-45-7	0.1	

#### 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).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Mancozeb 8018-01-7	-	Х	-	-

### **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).

#### 42750-389 - Koverall Fungicide

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Ethylene Thiourea	10 lb	-
96-45-7		

#### **US State Regulations**

### **California Proposition 65**

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65	
Mancozeb - 8018-01-7	Carcinogen	
Ethylene Thiourea - 96-45-7	Carcinogen	
	Developmental	

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Mancozeb	X	-	X
8018-01-7			
Ethylene Thiourea	X	X	X
96-45-7			

# 16. Other information

NFPAHealth hazards2Flammability0Instability0Special hazards-HMISHealth hazards2 \*Flammability0Physical hazards0Personal protectionX

Chronic Hazard Star Legend \*= Chronic Health Hazard

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 07-Oct-2020

**Revision Note**No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

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date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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**End of Safety Data Sheet**