SAFETY DATA SHEET



Revision date 17-Jun-2021 Revision Number 1

1. Identification

Product identifier

Product Name Priority Meso

Other means of identification

Product Code(s) 000075

Synonyms None

Registration Number(s) 42750-346

Recommended use of the chemical and restrictions on use

Recommended use Herbicide

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 50211

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)

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 Certain sections of this SDS are superseded by federal law governed by US EPA for a registered pesticide.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 2A

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Warning

Hazard statements

Harmful if inhaled

Causes serious eye irritation



Appearance viscous

Physical state Liquid

Odor Slight Faint 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 Wear eye protection/ face protection

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

Unknown acute toxicity

Other information

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

3. Composition/information on ingredients

Substance

Not applicable.

<u>Mixture</u>

Chemical name	CAS No	Weight-%	Active Ingredient
Metolachlor	51218-45-2	35.70-37.90	X
Ethylene Glycol	107-21-1	4.75-5.25	
Mesotrione	104206-82-8	3.55-3.92	Х
Dichlormid	37764-25-3	1.11-1.23	
Bronopol	52-51-7	0.12-0.14	
Other Ingredients	PROPRIETARY	>50	

^{*}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.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

Skin contact Wash skin with soap and water.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. Get medical attention.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. 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 May cause redness and tearing of the eyes. Burning sensation. Coughing and/ or

wheezing. Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

Note to physiciansTreat 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

No data available.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment 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 precautionsAvoid 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

000075 - Priority Meso Revision date 17-Jun-2021

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upPick 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. Do not eat, drink or smoke when using this product. Avoid breathing vapors or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear

suitable respiratory equipment.

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/m ³ 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.

Hand protection Wear suitable gloves.

Skin and body protectionWear 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. Wear suitable gloves and eye/face protection. 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 viscous
Color white

OdorSlight Faint sweetOdor thresholdNo data available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 3.0 4.0

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 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 706.1 cSt @ 20 °C, 121.2 cSt @ 40 °C

Dynamic viscosity No data available

Other information

Explosive properties

Oxidizing properties

No data available

VOC Content (%)

Liquid Density

Bulk density

No data available

1.057 g/cm3 @ 20 °C*

No data available

10. Stability and reactivity

Reactivity No data 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.

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

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. Harmful by inhalation. (based on components).

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye

irritation. (based on components). May cause redness, itching, and pain.

Skin contact Specific test data for the substance or mixture is not available. May cause irritation.

Prolonged contact may cause redness and irritation.

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

gastrointestinal irritation, nausea, vomiting and diarrhea.

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

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
 > 2.17 mg/L

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Metolachlor 51218-45-2	= 200 mg/kg (Rat)	= 12700 mg/kg (Rabbit)	= 2.44 mg/L (Rat) 4 h
51210-45-2	= 2200 mg/kg (Rat)		
Ethylene Glycol	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat) = 9530	-
107-21-1		μL/kg (Rabbit)	
Mesotrione	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
104206-82-8			
Dichlormid	= 2146 mg/kg (Rat)	= 2.04 mg/kg (Rat) > 5 g/kg	= 5500 mg/m ³ (Rat) 1 h
37764-25-3	= 2.146 mg/kg (Rat)	(Rabbit)	
Bronopol	= 180 mg/kg (Rat)	= 1600 mg/kg (Rat)	$> 5 \text{ g/m}^3 \text{ (Rat) } 6 \text{ h} = 800$
52-51-7			mg/m³ (Rat)4 h

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 Causes moderate eye irritation.

Respiratory or skin sensitization Did not cause sensitization on laboratory animals.

Germ cell mutagenicity No data available.

Carcinogenicity No data available.

000075 - Priority Meso

Revision date 17-Jun-2021

Reproductive toxicity No data available.

STOT - single exposure No data available.

STOT - repeated exposure No data available.

Target organ effects Respiratory system, Eyes, Skin, Central nervous system.

Aspiration hazard No data available.

Other adverse effects No data available.

Interactive effects No data available.

12. Ecological information

Ecotoxicity

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Metolachlor	EC50: =57.1mg/L (72h,	LC50: 8.6 - 12mg/L (96h,	-	LC50: =25.1mg/L (48h,
51218-45-2	Desmodesmus	Lepomis macrochirus)		Daphnia magna) EC50:
	subspicatus) EC50:	LC50: 3.3 - 4.6mg/L (96h,		=4.25mg/L (48h, Daphnia
	0.0448 - 0.0568mg/L	Oncorhynchus mykiss)		magna) EC50: 13 -
	(96h, Pseudokirchneriella	LC50: 5.4 - 12mg/L (96h,		18.4mg/L (48h, Daphnia
	subcapitata) EC50:	Pimephales promelas)		magna)
	=0.014mg/L (120h,	LC50: 7.4 - 10.5mg/L		-
	Pseudokirchneriella	(96h, Poecilia reticulata)		
	subcapitata)			
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)		

Persistence and degradability No data available.

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient	
Metolachlor	2.9	
51218-45-2		
Ethylene Glycol	-1.93	
107-21-1		

Other adverse effects No data available.

000075 - Priority Meso Revision date 17-Jun-2021

13. Disposal considerations

Waste treatment 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

TDG Not applicable

Not applicable MEX

ICAO (air) Not applicable

<u>IATA</u> Not applicable

IMDG Not applicable

RID Not applicable

ADR Not applicable

ADN Not applicable

15. Regulatory information

U.S. EPA Label Information

EPA Pesticide Registration Number 42750-346

EPA Pesticide Label CAUTION. Causes moderate eye irritation.

International Inventories

TSCA Does not comply DSL/NDSL Does not comply **EINECS/ELINCS** Does not comply Does not comply **ENCS** Does not comply **IECSC** Does not comply **KECL PICCS** Does not comply **AICS** 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

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

Revision date 17-Jun-2021

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	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			
Γ	Metolachlor	X	-	-
	51218-45-2			
	Ethylene Glycol 107-21-1	X	X	X

16. Other information

NFPAHealth hazards3Flammability0Instability0Physical and chemical properties -HMISHealth hazards3Flammability0Physical hazards0Personal protectionX

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 17-Jun-2021 Revision Note 17-Jun-2021 No data available.

Disclaimer

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

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of Albaugh's knowledge. Albaugh makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

End of Safety Data Sheet