



Revision date 14-Mar-2023

**Revision Number** 1

1. Identification		
Product identifier		
Product Name	Raclos Fungicide	
Other means of identification		
Product Code(s)	34615	
UN number or ID number	UN2902	
Synonyms	None	
Registration Number(s)	34615	
Recommended use of the cher	nical and restrictions on use	
Recommended use	Fungicide	
Restrictions on use	Follow label instructions	
Details of the supplier of the sa	afety data sheet	
<u>Initial supplier identifier</u> 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

<u>Classification</u>	
Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Aspiration hazard	Category 1

#### Label elements

Danger

#### Hazard statements

Toxic if swallowed Harmful if inhaled Causes skin irritation Causes serious eye irritation Suspected of causing cancer May cause respiratory irritation. May cause drowsiness or dizziness May be fatal if swallowed and enters airways



#### **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves, protective clothing, eye protection and face protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust, fume, gas, mist, vapors and spray Use only outdoors or in a well-ventilated area

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention Eyes

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 and attention

#### Skin

IF ON SKIN: Wash with plenty of water and soap If skin irritation occurs: Get medical advice and attention Take off contaminated clothing and wash it before reuse

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth Do NOT induce vomiting

#### Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep container tightly closed

#### Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant

#### Other information

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

#### Unknown acute toxicity

### 3. Composition/information on ingredients

#### Substance

Not applicable.

#### <u>Mixture</u>

Chemical name CAS No	Weight-%	Hazardous Material	Date HMIRA filed and
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## 34615 - Raclos Fungicide

			Information Review Act registry number (HMIRA registry #)	date exemption granted (if applicable)
Solvent Naphtha (Petroleum), Heavy Aromatic	64742-94-5	48.37-51.37		
			-	
Pyraclostrobin	175013-18-0	22.8-24.2	-	
Naphthalene	91-20-3	< 6.0	-	
Pseudocumene (1,2,4-Trimethylbenzene)	95-63-6	<1.0	-	
Other Ingredients	PROPRIETAR	>20.0	-	
	Y			

## 4. First-aid measures

### **Description of first aid measures**

General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention. Immediate medical attention is required.
Inhalation Eye contact	Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical attention. Delayed pulmonary edema may occur. 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 off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical advice/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 direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. See section 8 for more information.
Most important symptoms and effe	cts, both acute and delayed
Symptoms	Difficulty in breathing. Coughing and/ or wheezing. Dizziness. May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Indication of any immediate medica	I attention and special treatment needed
Note to physicians	Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.

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 impac	t 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. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists.
Other information	Refer to protective measures listed in Sections 7 and 8.
Methods and material for containm	ent 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. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment.
Conditions for safe storage, inc	luding any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Store locked up. Store away from other materials.

# 8. Exposure controls/personal protection

#### Control parameters

Exposure Limits				
Chemical name	Alberta	British Columbia	Ontario	Quebec
Naphthalene 91-20-3	TWA: 10 ppm TWA: 52 mg/m <sup>3</sup> STEL: 15 ppm STEL: 79 mg/m <sup>3</sup> Skin	TWA: 10 ppm Skin	TWA: 10 ppm Skin	TWA: 10 ppm TWA: 52 mg/m <sup>3</sup> STEL: 15 ppm STEL: 79 mg/m <sup>3</sup>

#### Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	If splashes are likely to occur, wear safety glasses with side-shields.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection Respiratory protection	Wear suitable protective clothing. Long sleeved clothing. 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. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

## 9. Physical and chemical properties

Information on basic physical and c	hemical properties	
Physical state	Liquid	
Appearance	Liquid	
Color	yellow	
Odor	mild Characteristic	
Odor threshold	No information available	
Property_	Values_	Remarks • Method
pH	5.5 - 6.5	@ 1%
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	eNo data available	None known
Flash point	100.7 °C / 213.3 °F	None known
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	16.66 cSt (20°C); 9.60 cSt (40°C)	None known
Dynamic viscosity	No data available	None known
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	1.067*	

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#### **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

Strong acids. Strong bases. Strong oxidizing agents. 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. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. May cause drowsiness or dizziness. Harmful by inhalation. (based on components).			
Eye contact	Specific test data for the substance or mixture is not available. May cause irritation. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.			
Skin contact	Repeated exposure may cause skin d substance or mixture is not available.			
Ingestion	Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. (based on components).			
Symptoms related to the physical,	hemical and toxicological characteri	stics		
Symptoms	Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.			
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 Dermal LD50	260 mg/kg > 4000 mg/kg			
Component Information				
Chemical name	Oral LD50 D	ermal LD50	Inhalation LC50	

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Solvent Naphtha (Petroleum), Heavy Aromatic 64742-94-5	> 5000 mg/kg (Rat)	> 2 mL/kg (Rabbit)	> 590 mg/m³(Rat)4 h
Pyraclostrobin 175013-18-0	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	0.31 - 1.07 mg/L (Rat)4 h
Naphthalene 91-20-3	= 1110 mg/kg (Rat) = 490 mg/kg (Rat)	= 1120 mg/kg (Rabbit)> 20 g/kg (Rabbit)	> 340 mg/m³(Rat)1 h
Pseudocumene (1,2,4-Trimethylbenzene) 95-63-6	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m³(Rat)4 h

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

Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	Did not cause sensitization on laboratory animals.
Germ cell mutagenicity	No information available.
Carcinogenicity	Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

The table below indicates whether each agency has listed any ingredient as a carcinogen.					
Chemical name	ACGIH	IARC	NTP	OSHA	
Naphthalene	A3	Group 2B	Reasonably Anticipated	Х	
91-20-3					
Legend	onference of Governmen	tal Industrial Hygionists)			
A3 - Animal Carcinoge					
IARC (International A	gency for Research on (	Cancer)			
	arcinogenic to Humans				
NTP (National Toxico		d to bo a Human Caroinor	100		
	d - Reasonably Anticipate Safety and Health Admi	-	E		
X - Present					
<b>–</b>					
Reproductive toxicity No information available.					
STOT - single exposure	STOT - single exposure May cause respiratory irritation. May cause drowsiness or dizziness.				
STOT - repeated exposure No information available.					
Target organ effects	Farget organ effects Liver, Kidney, Eyes, Skin, Central nervous system, Blood.				
Aspiration hazard May be fatal if swallowed and enters airways.					

## 12. Ecological information

#### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Solvent Naphtha (Petroleum), Heavy Aromatic 64742-94-5	EC50: =2.5mg/L (72h, Skeletonema costatum)	LC50: =19mg/L (96h, Pimephales promelas) LC50: =2.34mg/L (96h, Oncorhynchus mykiss) LC50: =1740mg/L (96h, Lepomis macrochirus)	-	EC50: =0.95mg/L (48h, Daphnia magna)

Naphthalene 91-20-3	EC50: =0.4mg/L (72h, Skeletonema costatum)	LC50: =45mg/L (96h, Pimephales promelas) LC50: =41mg/L (96h, Pimephales promelas) LC50: 5.74 - 6.44mg/L (96h, Pimephales promelas) LC50: =1.6mg/L (96h, Oncorhynchus mykiss) LC50: 0.91 - 2.82mg/L (96h, Oncorhynchus mykiss) LC50: =1.99mg/L (96h, Pimephales promelas) LC50: =31.0265mg/L (96h, Lepomis macrochirus)	-	LC50: =2.16mg/L (48h, Daphnia magna) EC50: =1.96mg/L (48h, Daphnia magna) EC50: 1.09 - 3.4mg/L (48h, Daphnia magna)
Pseudocumene (1,2,4-Trimethylbenzene) 95-63-6	-	LC50: 7.19 - 8.28mg/L (96h, Pimephales promelas)	-	EC50: =6.14mg/L (48h, Daphnia magna)

#### Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

#### **Component Information**

Chemical name	Partition coefficient
Solvent Naphtha (Petroleum), Heavy Aromatic 64742-94-5	6.1
Naphthalene 91-20-3	3.6
Pseudocumene (1,2,4-Trimethylbenzene) 95-63-6	3.63

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

UN number or ID number	UN2902
Proper shipping name	Pesticides, liquid, toxic, n.o.s., (contains Solvent Naphtha, Pyraclostrobin)
Transport hazard class(es)	6.1
Packing group	III

### 15. Regulatory information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories	
TSCA	Contact supplier for inventory compliance status.
DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
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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

4C Other information

16. Other in	formation			
<b>NFPA</b> <u>HMIS</u> Chronic Hazard S	Health hazards 3 * Flam	a <b>mability</b> 1 a <b>mability</b> 1 dazard	Instability 0 Physical hazards 0	Special hazards - Personal protection X
Key or legend t	o abbreviations and acronyms used in	the safety data s	heet	
TWA Ceiling	n 8: Exposure controls/personal protect TWA (time-weighted average) Maximum limit value eferences and sources for data used to	STEL *	STEL (Short Term Skin designation	n Exposure Limit)
Agency for Toxic U.S. Environmen European Food EPA (Environmen Acute Exposure U.S. Environmen Food Research Hazardous Subs International Uni Japan GHS Clas Australia National NIOSH (National National Library National Library National Toxicol	c Substances and Disease Registry (ATSI ntal Protection Agency ChemView Databa Safety Authority (EFSA) ental Protection Agency) Guideline Level(s) (AEGL(s)) ntal Protection Agency Federal Insecticide ntal Protection Agency High Production V Journal stance Database iform Chemical Information Database (IUC	DR) ase e, Fungicide, and R olume Chemicals CLID) ssessment Scheme alth) JBMED)	Rodenticide Act	

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-Mar-2023

#### **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 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.

End of Safety Data Sheet