

Product Name	Optimize Plus 3-7-0
Trade Name	Optimize Plus
Distributor	Cropland Solutions Inc., 9068 51st Ave NW
	Edmonton, AB, T6E 5X4
Section 2. Composition, Information on Ingredients	
Hydrolyzed proteins, peptides	24-39%
Organic Inorganic Buffering Matrix	20 %
Surfactants	5-10%
Micronutrients Zn, Mn, B	1% each
Sulphur	5%
Additive color Indicators	<2%
Water	to make 100%
Section 3. Hazards Identification	
Most Important Hazards	Classified as hazardous according to the criteria
	of NOHSC
Human Health Hazards - Eyes	Irritating to eyes, in case of contact with eyes
,,,,,	rinse immediately with plenty of water and
	contact a doctor
Human Health Hazards - Skin	Material may cause irritation on prolonged or
	repeated contact.
Human Health Hazards - Ingestion	A large dose may have the following effects
	diarrhea, nausea, vomiting.
Human Health Hazards - Inhalation	Exposure to dust at high concentrations may
	have the following effects: - irritation of nose
	throat and respiratory tract.
Section 4. First Aid Measures	
Inhalation:	If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. Get medical attention
	immediately.
	If swallowed, do not induce vomiting unless
Ingestion:	directed to do so by medical personnel. Neve
ingestion.	give anything by mouth to an unconscious
	person. Loosen tight clothing such as a collar tie, belt or waistband. Get medical attention
	immediately.
Skin Contact:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes



Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately. Check for and remove any contact lenses. In Eye Contact: case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately. Effects and symptoms Slightly hazardous in case of inhalation (lung Inhalation: irritant, lung sensitizer). Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Over-exposure by inhalation may cause respiratory irritation. Ingestion: May be fatal if swallowed. May cause burns to mouth, throat and stomach. Skin Contact Hazardous in case of skin contact (corrosive). Skin contact may produce burns. Very hazardous in case of eye contact **Eye Contact** (corrosive). Repeated or prolonged contact spray mist may produce chronic eye irritation and severe skin irritation. Aggravating conditions Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs. **Section 5. Fire Fighting Measures** Extinguishing Media - Suitable Use water spray, foam, dry chemical, alcohol resistant foam or CO₂ Section 6. Accidental Release Measures **Personal Precautions** Wear appropriate personal protective

equipment such as splash goggles, gloves.



Small Spills	Absorb with sand or other non-combustible
	absorbent material and put in a suitable

container for reclamation or disposal.

Large Spills Dyke far ahead of liquid spills for later disposal.

Prevent entry of the substance into waterways,

sewers, basements or confined areas.

Neutralise the residue with dilute solution of

alkali such as sodium carbonate

Section 7. Handling and Storage

Handling Keep in tightly closed container in a shaded,

well-ventilated area, away from heat, sparks and other sources of ignition incompatible

substances such as alkali, oxidising agents
Storage area should be cool, dry out of dir

Storage area should be cool, dry out of direct sunlight. Protect against physical damage. Observe all warnings and precautions listed for the product. If ingested seek medical advice immediately & show the container or label.

Avoid contact with skin & eyes

Section 8. Exposure Controls, Personal Protection

Protective Measures - Respiratory In general, dilution ventilation is a satisfactory

health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered. Wear suitable personal protective equipment including approved respiratory

protection.

Protective Measures - Hands Wear appropriate hand gloves where

necessary. Wash hands, forearms, thoroughly after handling the product & before eating, drinking, smoking, using lavatory & at the end

of the day.

Protective Measures - Eyes Use chemical safety goggles and/or full-face

shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in

work area.

Section 9. Physical and Chemical Properties

Physical State Liquid

Color Red Colored Liquid

Density 1.14 – 1.35 pH (1% solution) 3.0 to 4.0

Flash Point > 100 deg. Celsius Boiling Point > 100 deg. Celsius



Solubility in water	Soluble in water
Section 10. Stability and Reactivity	
Stability	Stable under recommended storage and handling conditions (see section 7). Hygroscopic.
Conditions to Avoid	Exposure to direct sunlight
Incompatible materials	Strong Oxidizing agents
Hazardous decomposition products:	Oxides of nitrogen and carbon & phosphates
Hazardous reactions:	No hazardous reactions with proper storage and handling.
Section 11. Toxicological Information	
Acute toxicity	Low order of acute toxicity Oral LD50 (rat) >1000 mg/kg Dermal LD50 (rabbit) >1500 mg/kg Inhalation LC50 (rat)>20 mg/liter/4h
Eye irritation Skin irritation	Irritating to the eye. Moderately irritating to the skin. Repeated or prolonged exposure with skin may cause dermatitis or burning of the skin
Section 12. Ecological information	
Eco toxicity	No relevant studies identified.
Section 13. Disposal considerations	
Disposal considerations	Contaminated absorbents, surplus product (in diluted form), etc., should be buried in approved landfill. Comply with any local legislation applying to waste disposal. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Surfactants can cause foaming problems in biological wastewater treatment plants and other high shear operations. Dispose of container and unused contents in accordance with federal, state and local requirements.
Section 14. Transport Information	



UN : UN number UN Number: None Allocated

UN Proper Shipping Name: None Allocated

Class: None Allocated

Packing Group: None Allocated Hazchem Code: None Allocated

Road and Rail Transport: Not classified as Dangerous Goods by the criteria of the Dangerous Goods Code for transport by Road

and Rail.

Marine Transport: Not classified as Dangerous

Goods by the criteria of the

International Maritime Dangerous Goods Code

(IMDG Code) for transport by sea.

Air Transport: Not classified as Dangerous Goods by the criteria of the International Air Transport (IATA) Dangerous Goods Regulations

for transport by air

Section 15. Regulatory Information

EC Classification Classification Toxic

Risk Phrases - R21- Harmful in contact with

skin.

R25- Toxic if swallowed.

R34- Causes burns.

Safety Phrases:

S1/2- Keep locked up and out of the reach of

children.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S36/37/39- Wear suitable protective clothing,

gloves and eye/face protection.

S45- In case of accident or if you feel unwell, seek medical advice immediately (show the

label where

possible).

Section 16. Other Information

MSDS first issued 22.01.2022