



Micro-Treat {AP} Safety Data Sheet

Section 1: Identification

Product Name: Micro-Treat {AP}
Reference Number: FP – L – I - 120
Recommended use: Detergent
Supplier Information: Cartier Environmental Services Inc.
Emergency Phone Number: CANUTEC 613-996-6666

Section 2: Hazard Identification

Physical Hazards: Not classified.
Health Hazards: Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Sensitization, respiratory Category 1
Environmental Hazards: Not classified.
OSHA Defined Hazards: Not classified.
Label Elements:



Signal Word: Danger
Hazard Statement: Causes skin irritation.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statement:

Prevention: Avoid breathing mist of vapor.
In case of inadequate ventilation wear respiratory protection.
Wash hands thoroughly after handling.
Wear eye/face protection.
Wear protective gloves.

Response:

Inhalation: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: call a poison center/doctor.
Skin: Wash with plenty of water. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash before reuse.
Eyes: If in eyes: rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: get medical advice/attention.

Storage and Handling:

Storage: Store away from incompatible materials.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) Not Otherwise

Classified (HNOC):

Supplemental Information:

None known.
11% of mixture consists of component(s) of unknown acute toxicity.



Section 3: Ingredient Composition and Information

Mixture:

Chemical Name	CAS Number	% (weight)
Octanoic Acid, Potassium Salt	764-71-6	7-13
Glycerol	56-81-5	5-10
Subtilisin carlsburg	9014-01-1	1-3
Amylase, .alpha.-	9000-90-2	1-3
Cellulase	9012-54-8	1-3

Section 4: First-Aid Measures

Description of First-Aid Measures

- Inhalation:** Remove to fresh air. Seek medical attention if symptoms occur.
- Skin Contact:** Wash affected area with plenty of soap and water for at least 15 minutes. Remove contaminated clothing/footwear. Get medical attention if irritation persists. Wash clothing before reuse.
- Eye Contact:** Rinse eyes with plenty of water, making sure to get under the upper and lower eyelids. If applicable, remove contact lenses after 5 minutes and continue to flush eye after removal. Get medical attention immediately if irritation persists.
- Ingestion:** If swallowed do not induce vomiting. Dilute with plenty of water or milk. Never give anything by mouth to a convulsing or unconscious patient. Get medical attention immediately.

Symptoms and Effects, both Acute and Delayed: May cause allergic respiratory reaction. Symptoms may include: stinging, tearing, redness, swelling of the eyes and blurred vision. Skin irritation.

Immediate Medical Attention/Special Treatments: Treat patient symptomatically. If medical advice is needed, have product container or label at hand. Ensure that medical personnel are aware of material(s) involved and take precautions to protect themselves. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Treat for surrounding material.
Unsuitable Extinguishing Media: Not available.

Special Hazards arising from the Substance or Mixture: During fire, gases hazardous to health may be formed.

Precautions for Fire-Fighters: Exercise caution when fighting any chemical fire. Firefighters' protective clothing will only provide limited protection. Wear chemical protective clothing, including



	respiratory protection. Move containers from the area on fire if it can be done without risk.
Specific Methods:	Use standard firefighting procedures and consider the hazards of other involved materials.
Hazardous Combustion Products:	May include and are not limited to: Oxides of carbon.
<u>Explosion Data:</u>	
Sensitivity To Mechanical Impact:	No.
Sensitivity To Static Discharge:	No.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures

General Measures:	Equip clean-up crew with proper protection. Ensure the area is well ventilated and use appropriate respiratory protection if it isn't. Evacuate unnecessary personnel. Local authorities should be advised if significant spillages cannot be contained.
Protective Equipment:	Always use appropriate personal protective equipment (PPE). Do not touch and avoid walking through spilled material. Do not touch damaged containers unless equipped with PPE.
Emergency Procedures:	As an immediate precautionary measure, isolate spill or leak if it can be done safely. Eliminate all ignition sources (Smoking, flares, sparks, or flames). Ventilate closed areas before entering. If outdoors, stay upwind.
Environmental Precautions:	Dispose of waste in accordance with local, regional, national, and/or international regulations.
Containment & Clean-up Measures:	Clean up spill immediately and dispose of waste safely. Stop leak and isolate spill if it can be done safely. Large spills: dike the material where possible, absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Small spills: wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for reuse. For more information on safe disposal, please refer to "Section 13: Disposal Considerations".

Section 7: Handling and Storage

Precautions for Safe Handling:	Before use carefully read the product label. Always handle empty containers with care as they may retain residual product. Ensure ventilation is adequate when using this product. Handle in accordance with good industrial hygiene and safety procedures. Wash hands or other exposed areas thoroughly with soap and water before eating, drinking, or smoking and again when leaving work.
Conditions for Safe Storage:	Ensure containers are properly labelled and protected from physical damage when not in use. Check regularly for leaks or spills. Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from combustible substances and away from heated areas, sparks and flame.
Storage Incompatibilities:	Store away from children, food items, and potable water. Store in an area out of direct sunlight. Avoid storing in a damp environment.



Section 8: Exposure Controls and Personal Protection

Occupational Exposure Limits:

Exposure Limits/Guidelines			
Substance	Type	Value	Form
Glycerol (CAS NO. 56-81-5)	PEL	5 mg/m ³ 15 mg/m ³	Respirable Fraction. Total dust.
Subtilisin carlsburg (CAS NO. 9014-01-1)	Ceiling	0.00006 mg/m ³	
Subtilisin carlsburg (CAS NO. 9014-01-1)	STEL	0.00006 mg/m ³	
Cellulase (CAS NO. 9012-54-8)	PEL	5 mg/m ³ 15 mg/m ³	Respirable Fraction. Total dust.
Cellulase (CAS NO. 9012-54-8)	ACGIH	10mg/m ³	

Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.

Biological limit values: No biological exposure limits noted for the ingredients.

Exposure Controls

Engineering Measures/Controls: Ensure adequate ventilation. Ensure all local/national regulations are met.

Individual Protection Measures: Use proper protective equipment. Wear safety goggles and protective gloves when handling this product. Avoid dermal exposure. In case of insufficient ventilation, or if exposure limits are exceeded or symptoms are experienced, use a NIOSH/MSHA approved respirator. Always handle product in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Material Description			
Appearance	Beige / Off-White Liquid	Flammability	Non-Flammable
Odor	Mild	Explosive Limits	No data available
Odor Threshold	No data available	Vapor Pressure	Similar to water
pH	6.5-9.0	Vapor Density	Similar to water
Melting Point	Similar to water	Relative Density	1.01
Freezing Point	Similar to water	Solubility	Soluble
Initial Boiling Point	Similar to water	Partition Coefficient	No data available
Boiling range	Similar to water	Auto-Ignition Temperature	No data available
Flash Point	No data available	Decomposition Temperature	No data available
Evaporation Rate	Not applicable	Viscosity	Similar to water

Section 10: Stability and Reactivity

Reactivity Data:

Reactivity: This product may react with oxidizing agents.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: None known. Hazardous polymerization will not occur.



Hazardous Decomposition Products: May include and are not limited to: Oxides of Carbon.

Conditions to avoid: Contact with incompatible materials.

Incompatible Materials: Strong oxidizing agents.

Section 11: Toxicological Information

Routes of Exposure: Inhalation. Ingestion. Skin Contact. Eye contact.

Information on Likely Routes of Exposure:

Ingestion: May be harmful if swallowed.
Inhalation: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 May cause irritation to the respiratory.
Skin Contact: Causes skin irritation.
Eye Contact: Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics: Symptoms of eye contact may include stinging, tearing, redness, swelling of the eyes, and blurred vision. Symptoms of ingestion may include stomach distress, nausea or vomiting. Symptoms of skin contact may include redness, drying, defatting and cracking of the skin.

Information on Toxicological Effects:

Acute Toxicity

Components	Species	Test Results
Amylase, .alpha.- (CAS NO. 9000-90-2) Acute <i>Dermal</i> LD50 <i>Inhalation</i> LC50 <i>Oral</i> LD50	Not available Not available Rat	7500 mg/kg
Glycerol (CAS NO. 56-81-5) Acute <i>Dermal</i> LD50 <i>Inhalation</i> LC50 <i>Oral</i> LD50	Rabbit Rat Mouse Rat	>10000 mg/kg, 23000 kg/mg >143 mg/m ³ , 4 hours 23000 kg/mg >12600 mg/kg, 27200 mg/kg
Octanoic Acid, Potassium Salt (CAS NO. 764-71-6) Acute <i>Inhalation</i> LC50 <i>Oral</i> LD50	Not available Not available	
Subtilisin carlsburg (CAS NO. 9014-01-1) Acute <i>Dermal</i>	Not available	



LD50		
<i>Inhalation</i> LC50	Not available	
<i>Oral</i> LD50	Rat	1800 mg/kg

Skin corrosion/irritation	Causes irritation.
Exposure minutes	Not available.
Erythema value	Not available.
Oedema value	Not available.
Serious eye damage/irritation	Causes irritation.
Corneal opacity value	Not available.
Iris lesion value	Not available.
Conjunctival oedema value	Not available.
Recover days	Not available.
Respiratory or skin sensitization	
Respiratory sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	Not classified.
Mutagenicity	Not classified.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Teratogenicity	Not classified.
Specific target organ toxicity – single exposure	Not classified.
Specific target organ toxicity – repeated exposure	Not classified.
Aspiration Hazard	Not classified.
Chronic effects	Prolonged inhalation may be harmful.
Further information	Not available.
Name of Toxicologically Synergistic Products	Not available.

Section 12: Ecological Information

Ecotoxicity:

Components	Species	Test Results
Glycerol (CAS NO. 56-81-5) Aquatic Fish LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	51000-57000 mg/l, 96 hours

Persistence and Degradability:

No data is available on the degradability of this product.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other adverse Effects: None known.

Mobility in general: Not available.



Section 13: Disposal Information

Waste Treatment Methods

- Product Waste:** To be disposed of as hazardous waste. Dispose of waste in accordance with local, regional, national, and/or international regulations.
- Hazardous Waste Code:** The waste code should be assigned in discussion between the user, the producer and the waster disposal company.
- Packaging Waste:** Dispose of container or packaging in accordance with local, regional, national, and/or international regulations.
- Contaminated Packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14: Transport Information

- US Department of Transportation (DOT):** Not regulated as dangerous goods.
- Transportation of Dangerous Goods (TDG-Canada):** Not regulated as dangerous goods.

Section 15: Regulatory Information

Safety, Health, and Environmental Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

- WHIMIS status:** Controlled
- WHIMIS classification:** Class D – Division 2A, 2B
- WHIMIS labeling:**



International Inventories:

US Federal Regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

<u>Country(s) or Region</u>	<u>Inventory Name</u>	<u>On Inventory (yes/no)*</u>
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
United States	Superfund Amendments and Reauthorization Act (SARA)	Not regulated
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

* "Yes" indicates that all the components of this product comply with the inventory requirements administered by the



governing country(s).

Section 16: Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



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