

SAFETY DATA SHEET

Issue Date: 2 September 2015

Revision Date: 2 September 2015

Version 1.0

1. IDENTIFICATION

Product Identifier

Product Name T.L.C. and T.L.C. Jr.

Other means of identification

SDS # N/A

Recommended use of the chemical and restrictions on use

Recommended Use Organic waste digester

Details of the supplier of the safety data sheet

Supplier Address

Continental Research Corporation

P.O. Box 15204

St. Louis MO 63110

800-325-4869

Emergency Telephone Number

Emergency Telephone (24 hr) 888-255-3924 (CHEM-TEL)

2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2) H315
Eye irritation (Category 2A) H319
Respiratory sensitization (Category 1) H344

GHS Label elements, including precautionary statements

Pictogram



Signal Word: Warning

Code	Hazard Statements
H315	Causes skin irritation

H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation

Code	Precautionary statements
P261	Avoid breathing /dust /fume/ gas/ mist/ vapors/ spray
P264	Wash skin thoroughly after handling
P285	In case of inadequate ventilation wear respiratory protection
P302 +P352	IF ON SKIN: Wash with plenty of soap and water
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see supplemental first aid instructions)
P332 + P313	If skin irritation occurs: Get medical advice/ attention
P337 + P313	If eye irritation persists: Get medical advice/ attention
P343 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician
P362	Take off contaminated clothing and wash before reuse
P501	Dispose of contents/ container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Bacterial Complex	68920-42-3	5-10
Pseudomonas fluorescens	None Established	<2
Pseudomonas oleovorans	None Established	<2
Pseudomonas putida	None Established	<2
Poly(oxy-1,2-ethanediyl), a-undecyl-w-hydroxy-	34398-01-1	1.0-4.0
Protease	9001-92-7	<0.25
Lipase	900-62-1	<0.25
Amylase	9001-19-8	<0.25
Cellulase	9012-54-8	<0.25
Natural Cellulose (Corn cob pith)	9004-34-6	30.0-40.0
Oat Hulls	None Established	30.0-40.0
Sodium Bicarbonate	144-55-8	10.0-20.0
2-hydroxypropane-1,2,3-tricarboxylic acid	77-92-9	10.0-20.0
Polymeric Colorant	None Established	<4

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	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.
Skin Contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
Ingestion	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. If conscious give large amounts of water. Seek immediate medical attention/advice.

Most important symptoms and effects

Symptoms	Direct contact with eyes may cause mild irritation. May cause mild skin irritation with prolonged or repeated contact. Ingestion of large amounts may cause irritation, nausea or diarrhea. Inhalation may irritate respiratory tract.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray (fog). Dry chemical. Carbon dioxide (CO₂). Foam.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Product is not flammable or combustible.

Hazardous Combustion Products Smoke, fumes or vapors, and oxides of carbon.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not enter confined fire-spaces without protective clothing and self-contained air supply.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protection recommended in Section 8.

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

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

Methods for Clean-Up Flush small spills with water. Large spills-confine spill, soak up with approved absorbent, and shovel product into approved container for disposal. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Wear protective gloves/protective clothing and eye/face protection. Wash face, hands, and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Avoid breathing vapors or mists. Contaminated work clothing should not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in secured area. Store locked up. Keep container closed when not in use.

Incompatible Materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines No exposure limits noted for ingredient(s) The following information is given as general guidance

Appropriate engineering controls

Engineering Controls Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Maintain eye wash fountain and quick-drench facilities in work area.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side shields or chemical goggles.

Skin and Body Protection Wear protective gloves and protective clothing. PVC gloves. Rubber gloves.

Respiratory Protection Not required under normal use conditions.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Solid	Odor	Not Determined
Appearance	Granular powder	Odor Threshold	Not determined
Color	Red		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not Determined	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	Not determined	
Flash Point	Not determined	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	Not Determined	(1=Water)
Water Solubility	Not Determined	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Contact with incompatible materials.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

Smoke, fumes or vapors, and oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye Contact

May cause irritation, health injuries not expected under normal use

Skin Contact

May cause irritation, health injuries not expected under normal use

Inhalation

May cause irritation to the mucous membranes and upper respiratory tract. Health injuries not expected under normal use

Ingestion

May cause irritation, health injuries not expected under normal use

Data as Supplied for compounds at 100%

Chemical Name	Oral LD 50	Dermal LD 50	Inhalation LD 50
Poly(oxy-1,2-ethanediyl),a-undecly-w-hydroxy 34398-01-1	1,000-2,000 mg/kg Species: Rat		
2-hydroxypropane-1,2,3-tricarboxylic acid 77-92-9	3000 mg/kg Species Rat	Not Determined	Not Determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecological studies have not been carried out on this product

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

Please contact manufacturer for most current information

IATA

Please contact manufacturer for most current information

IMDG

Please contact manufacturer for most current information

15. REGULATORY INFORMATION

International Inventories

	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Materials used in this formulation	Present	X	X	Present		Present	X	X	X	X

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****CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313

Not determined

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)

US State Regulations

16. OTHER INFORMATION

NFPA**Health Hazards****Flammability****Instability****Special Hazards**

Not determined

Not determined

Not determined

Not determined

HMIS**Health Hazards****Flammability****Physical Hazards****Personal Protection**

Not determined

Not determined

Not determined

Not determined

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Revision Note:

New format

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