

Unpac® Safety Data Sheet Issue date: 12/02/2024 Version: 2.0

SECTION 1: Identification

1.1. Identification

Product form Product name : Mixture : Unpac®

1.2. Recommended use and restrictions on use

Recommended use Restrictions on use : A microbially derived biosurfactant. For use across all soil types. : No data available

1.3. Supplier

Locus Agriculture A Division of Locus Fermentation Solutions 30600 Aurora Road, Ste 180 Solon, OH 44139 USA T (440) 561-0800

1.4. Emergency telephone number

Emergency number

: Chemtrec (800) 424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc. (% w/w)
Sophorolipid	CAS-No.: Proprietary	20

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Descri	ption of	first aid	measures
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First-aid measures general	: Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Get medical advice/attention if you feel unwell. Rinse mouth out with water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
4.2. Most important symptoms and effects	(acute and delayed)
Symptoms/effects after inhalation	: No adverse effects expected.
Symptoms/effects after skin contact	: No adverse effects expected.
Symptoms/effects after eye contact	: May cause slight irritation.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal

use. May cause irritation to the digestive tract.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	g media
Suitable extinguishing media Unsuitable extinguishing media	: Use water spray, dry chemical, foam or carbon dioxide. Use water spray to cool drums exposed to fire.: No data available.
5.2. Specific hazards arising from the chem	nical
Fire hazard Hazardous decomposition products in case of fire	: No fire hazard. : No data available.
5.3. Special protective equipment and prec	autions for fire-fighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Ensure adequate ventilation. Wear personal protective equipment. Mark out the contaminated area with signs and prevent access to unauthorized personnel.

6.1.1. For non-emergency personnel

No additional information available

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6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Presents no particular risk to the environment.

6.3. Methods and material for containment and cleaning up

For containment Methods for cleaning up

- : Stop leak, if possible without risk.
- : Take up liquid spill into absorbent material. Collect all waste in suitable and labeled containers and dispose according to local legislation.

Other information

Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes.	
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, including any incompatibilities		

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Avoid freezing or overheating.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Unpac®
No additional information available
Sophorolipid (Proprietary)
No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls Environmental exposure controls

- : Ensure good ventilation of the work station.
- : No data available.

8.3. Individual protection measures/Personal protective equipment

Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
[In case of inadequate ventilation] wear respiratory protection.	

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Liquid
Color	:	Amber color
Odor	:	Mild aromatic
Odor threshold	:	No data available
рН	:	4 – 5 (0.1% in water)
Melting point	:	Not applicable
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	Not applicable
Vapor pressure	:	No data available
Relative vapor density at 20°C	:	No data available
Relative density	:	No data available
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosion limits	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	Not oxidising

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Repeated freezing and thawing, storing at high temperatures.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Likely routes of exposure	: Inhalation. Skin and eye contact.
Symptoms/effects after inhalation	: No adverse effects expected.
Symptoms/effects after skin contact	: No adverse effects expected.
Symptoms/effects after eye contact	: May cause slight irritation.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use. May cause irritation to the digestive tract.

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SECTION 12: Ecological information

12.1. Toxicity

Citric acid (77-92-9)		
LC50 - Fish [1]	48 mg/l	
Sodium benzoate (532-32-1)		
LC50 - Fish [1]	> 100 mg/l	
EC50 72h - Algae [1]	> 30.5 mg/l	
NOEC chronic fish	10 mg/l	

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Citric acid (77-92-9)	
Partition coefficient n-octanol/water (Log Pow)	-1.7
Sodium benzoate (532-32-1)	
Partition coefficient n-octanol/water (Log Pow)	-2.27

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

DOT	TDG	IMDG	ΙΑΤΑ
14.1. UN number		·	
Not applicable	Not applicable	Not applicable	Not applicable
14.2. Proper Shipping Name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		·	
Not applicable	Not applicable	Not applicable	Not applicable

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DOT	TDG	IMDG	ΙΑΤΑ
4.4. Packing group	· · ·		
Not applicable	Not applicable	Not applicable	Not applicable
4.5. Environmental hazards	•		
Not applicable	Not applicable	Not applicable	Not applicable

14.6. Special precautions for user

DOT Not applicable

TDG Not applicable

IMDG Not applicable

IATA Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SECTION 16: Other information

According to Federal Register / Vol. 77, No. NFPA health hazard	 58 / Monday, March 26, 2012 / Rules and Regulations : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials. 	
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.	
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.	
Hazard Rating		
Health	: 0 Minimal Hazard - No significant risk to health	
Flammability	: 0 Minimal Hazard - Materials that will not burn	
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.