

**SAFETY DATA SHEET**  
**TASK™ MicroEVO™ Self-Emulsifier**



Revision Date: 2021-02-16  
Version: 1.1 (1710P)

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier**

Product Name: TASK™ MicroEVO™ Self-Emulsifier (1710P)

Synonyms: TASK™ MicroEVO™ Self-Emulsifier

Product Form: Mixture

**Recommended use of the chemical and restrictions on use**

Recommended Use: Professional use, Industrial use. Emulsifier, Surfactant, Remediation of Groundwater and Soil.

Restrictions on Use: Use as recommended by the label

**Details of the supplier and of the safety data sheet**

Supplier                      Tersus Environmental, LLC  
   1116 Colonial Club Rd  
   Wake Forest, NC 27587  
   Phone: +1-919-453-5577  
   Email: [info@tersusenv.com](mailto:info@tersusenv.com)

Contact Person              David F. Alden  
   Phone: +1-919-453-5577 x2002  
   Email: [david.alden@tersusenv.com](mailto:david.alden@tersusenv.com)

**Emergency telephone number**

For leak, fire, spill or accident emergencies, call:

- +1-919-453-5577 (Tersus Office Hours, 8:00 AM to 5:00 PM Eastern)
- +1-800-424-9300 (Chemtrec 24 Hour Service – Emergency Only)
- +1-919-638-7892 Gary M. Birk (Outside office hours)

**2. HAZARD IDENTIFICATION**

**Relevant identified uses of the substance or mixture**

GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

**Other hazards**                      None known.

**Label element**                      The product does not require a hazard warning label in accordance with GHS.  
   The normal safety precautions for the handling of chemicals must be observed.

**Hazard statement**                      Non-Regulated Material

**Precautionary statement**

**Prevention** No GHS prevention statements  
**Response** No GHS response statements  
**Storage** No GHS storage statements  
**Disposal** No GHS disposal statements

**Hazard(s) not otherwise classified (HNOC) None known.**

**Other hazards**

Substance meets the criteria for PBT according to Regulation (EC) No.1907/2006, No

Annex XIII:No.Substance meets the criteria for vPvB according to Regulation (EC) No.1907/2006, Annex XII No

Other hazards which do not result in classification Not known

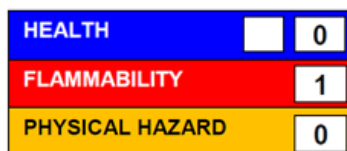
**Supplemental information**

NFPA Ratings (scale 0-4)



Health = 0  
Fire = 1  
Reactivity = 0

HMIS Ratings (scale 0-4)



Health = 0 Flammability = 1 Reactivity = 0

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance** Polymer

**Hazardous components**

Chemical Name	Concentration (%)	CAS Number
None	None	None

**Nonhazardous components**

Substance	Concentration (%)	CAS Number	Classification Regulation (EC) No. 1272/2008 [CLP/GHS]	Type
Castor oil	>99.5	61791-12-6	Not classified	[A]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

**Type**

[A] Constituents

[B] Impurity

[C] Stabilizing additive

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Synonyms are provided in Section 1.

Occupational exposure limits, if available, are listed in Section 8.

**Mixture**                      Now applicable

**4. FIRST AID MEASURES**

General Information	If exposed or concerned, get medical advice and attention.  Remove affected person from source of contamination.
Eye Contact	Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact	Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing.
Ingestion	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.  Symptoms/injuries after skin contact    No known significant effects or critical hazards. Symptoms/injuries after eye contact    No known significant effects or critical hazards.
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Indication of any immediate medical attention and special treatment needed	If exposed or concerned, get medical advice and attention.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment (see Section 8).

**5. FIRE-FIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Carbon dioxide. Dry powder. Foam. Sand. Water spray.
<b>Specific Hazards Arising from the chemical or mixture</b>	Fire hazard: 1 according to HMIS®. Material must be preheated before ignition will occur. Flash point above 200 °F (93 °C) Explosion hazard: In a fire or if heated, a pressure increase will occur and the container may burst. Avoid (reject) fire-fighting water to enter environment. Exercise caution when fighting any chemical fire. Do not enter fire area without proper protective equipment, including respiratory protection.

**6. ACCIDENTAL RELEASE MEASURES**

<b>For emergency responders</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Do not smoke or use open fire or other sources of ignition. Contact with walking surface may result in formation of slippery film/falling hazard.
<b>For non-emergency personnel</b>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
<b>First Aid:</b>	In case of contact with skin, wash with soap and water. If symptoms occur, seek medical attention. In case of contact with eyes, rinse with plenty of water for at least 15 minutes and see an eye specialist if irritation persists. In case of inhalation, remove to fresh air. In case of ingestion, drink water. If symptoms occur, seek medical assistance.
<b>Environmental Precautions</b>	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods for Containment and Clean Up**

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Do not absorb in sawdust or other combustible material.

**Reference to other sections**

See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

Contain with applicable regulations. Avoid contact with eyes. Avoid inhalation of vapors and spray/mist. Remove contaminated clothing immediately. Clean contaminated objects and areas thoroughly observing environmental regulations. Keep away from sources of ignition – No smoking. Handle in accordance with good industrial hygiene and safety procedures. Discharge into the environment must be avoided. Keep container tightly closed. Either local exhaust or general room ventilation is usually required.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety procedures. Use good personal hygiene practices.

**Conditions for safe storage, including any incompatibilities**

**Technical measures:** Clean bulk tanks periodically to prevent accumulation of bacteria.

**Storage conditions:** Store in tightly closed, original container in a well-ventilated place. Protect against frost. Protect against direct sunlight.

**Storage temperature:** See technical datasheet. Above 10°C (50°F) and away from heat or flame.

**Storage area:** Store in a dry area. Comply with applicable regulations. Collect spillage.

**Packaging materials:** Stainless steel. Plastic.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Control parameters**  
**Exposure Control****Protective equipment****Appropriate engineering controls**

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. Do not allow uncontrolled discharge of product into the environment.

<b>Eye/face protection</b>	The following protection should be worn: Chemical splash goggles.
<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Particulate filter, type P2.
<b>Hand protection</b>	Neoprene. Vinyl, Rubber (natural, latex), Butyl rubber. Wear protective gloves made of the following material: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Polyvinyl chloride (PVC). Manufactured/tested in accordance with EN 374, Avoid the following conditions: Polyvinyl alcohol (PVA).
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of skin contact.
<b>Hygiene measures</b>	Wash promptly if skin becomes contaminated. Wash hands at the end of each work shift and before eating, smoking, and using the toilet. When using do not eat, drink, or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Amber liquid
Odor	Mild
Odor threshold	Not determined.
pH	3.38 @ 5% in aqueous solution
Melting point /Freezing Point	Not determined.
Initial Boiling point and boiling point range	Not determined.
Flash Point	280°C Cleveland Open Cup
Evaporation rate	Not determined.
Flammability (solid; gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapor pressure	Not determined.
Vapor density	Not determined.
Relative density	Not determined.
Density	1.01 g/cm
Solubility (ies)	Dispersible
Partition coefficient: n-octanol/water	Not determined.
Initial Boiling point and boiling point range	Not determined.
Auto-ignition temperature	Unknown
Decomposition temperature	Unknown
Viscosity	Unknown

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under recommended storage and handling conditions (see Section 7).
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<b>Chemical stability</b>	Stable under normal conditions and use.\
<b>Possibility of hazardous reactions</b>	No dangerous reactions known.
<b>Conditions to avoid</b>	Direct sunlight. Extremely high or low temperatures.
<b>Incompatible materials</b>	Strong oxidizers
<b>Hazardous decomposition products</b>	Carbon dioxide. Carbon monoxide.

**11. TOXICOLOGICAL INFORMATION**

**Acute Toxicity**

Acute toxicity (oral)	NA
Skin	NA
Serious Eye	NA
Damage/Irritation	
Respiratory Sensitization	No known significant effects or critical hazards.
Skin Sensitization	NA
Ingestion	
Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	Not classified
Specific Target Organ	Not classified
Toxicity – Single Exposure	
Specific Organ Toxicity – Repeated Exposure	Not classified
Aspiration Hazard	May cause irritation.
General Remarks	Not classified

**Additional Toxicological Information**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.

**Carcinogenic Categories**

- IRAC** (International Agency for Research on Cancer): No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
- ACGIH** (American Conference of Governmental Industrial Hygienists): No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.
- NTP** (National Toxicology Program): No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
- OSHA** (Occupational Safety & Health Administration): No component of this product present at levels greater than or equal to 0.1% is on OSHA’s list of regulated carcinogens.

**12. ECOLOGICAL INFORMATION**

**Toxicity**

Product/Ingredient name	Results	Species	Exposure
Castor Oil, Ethoxylated	Acute LC50 116 mg/l Marine water	Cryustaceans – Americamysis bahia	48 hours

**Conclusions/Summary:** No known significant effects or critical hazards.

**Persistence and degradability**

Product/Ingredient name	Test	Results	Dose	Inoculum
Castor Oil, Ethoxylated	301D Ready Biodegradability – Closed bottle test	>60% - Readily – 28 days	-	-

Conclusion/Summary:

Biodegradation data source has not been precisely determined for this product. The information provided is compiled based on the data of similar substances. This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Product/Ingredient name	Aquatic Half-life	Photolysis	Biodegradability
Castor Oil, Ethoxylated			Readily

**Bioaccumulative potential**

Product/Ingredient name	LogP <sub>ow</sub>	BFC	Potential
Castor Oil, Ethoxylated	-	3,162	Low

**Mobility in Soil**

Soil/water partitioning coefficient K<sub>ow</sub>: Not available

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions, and any by-products should always comply with the requirements of environmental protection and waste disposal legislation and any regional or local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**14. TRANSPORTATION INFORMATION**

**U.S. (D.O.T.)**

Proper Shipping Name:	Chemicals not otherwise indexed (NOI) nonhazardous.
Hazard Class:	Not applicable
UN/NA:	Not applicable
Labels:	Not applicable

**Canada (T.D.G.)**

Proper Shipping Name:	Chemicals not otherwise indexed (NOI) nonhazardous.
Hazard Class:	Not applicable
UN/NA:	Not applicable
Labels:	Not applicable



**IMDG**

Proper Shipping Name:	Chemicals not otherwise indexed (NOI) nonhazardous.
Hazard Class:	Not applicable
UN/NA:	Not applicable
Labels:	Not applicable

**IATA**

Proper Shipping Name:	Chemicals not otherwise indexed (NOI) nonhazardous.
Hazard Class:	Not applicable
UN/NA:	Not applicable
Labels:	Not applicable

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

Not applicable for product as supplied.

**15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 311/312 Hazards:** No SARA Hazards

**SARA 313:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

**California Prop. 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

CH INV:	On the inventory, or in compliance with the inventory
DSL:	All components of this product are on the Canadian DSL
AICS:	On the inventory, or in compliance with the inventory
NZIoC:	On the inventory, or in compliance with the inventory
ENCS:	On the inventory, or in compliance with the inventory
KECI:	Not in compliance with the inventory
PICCS:	On the inventory, or in compliance with the inventory
IECSC:	On the inventory, or in compliance with the inventory
TCSI:	On the inventory, or in compliance with the inventory
TSCA:	On the inventory, or in compliance with the inventory

**16. OTHER INFORMATION**

Components not precisely identified are proprietary or non-hazardous.

Mixture classified as not dangerous according to Regulation (EC) 1272/2008.

Observe employment restrictions for people.

Product is not listed with IARC, NTP, ACGIH or OSHA as a carcinogen.

The information contained in this Safety Data Sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use of this product. The information in this sheet does not represent analytical specifications; for this information contact Tersus Environmental.

**Disclaimer:** This 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. All recommendations for the use of our products, whether given by us, orally or to be implied from data or lab tests results by us, are based on the current state of our knowledge at the time those recommendations are made. When additional information is obtained, these recommendations may be updated. They may also be influenced by circumstances outside our control. Notwithstanding, such recommendation the user is responsible that the product as supplied by us is suitable to the process or purpose he intends to use it. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of this product. Since we cannot control the application, use or processing of the product, we do not accept responsibility. Therefore, the user should assure that the intended use of the product will not infringe in any party's intellectual property right.



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**End of Safety Data Sheet**