

TASK™ MicroEVO™ Self-Emulsifier SDS

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Form Mixture
Product Name **TASK™ MicroEVO™ Self-Emulsifier**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Main use category Professional use, Industrial use
Industrial/Professional use spec EMULSIFIER, SURFACTANT, REMEDIATION OF GROUNDWATER AND SOIL
Uses advised against No additional information available

1.3 Details of the supplier and of the safety data sheet

Supplier Terus Environmental, LLC
 1116 Colonial Club Rd
 Wake Forest, NC 27587
 Phone: +1 (919) 453-5577
 info@tersusenv.com – www.tersusenv.com
Contact Person david.alden@tersusenv.com

1.4 Emergency telephone number:

Emergency Contact Number 1-800-424-9300 (CHEMTREC USA)
(Office hours)

Emergency Contact Number +1 (919) 453-5577
 Monday through Friday 8AM to 5 PM EST, Tersus Environmental
 ops@tersusenv.com, logistics@tersusenv.com

 +1-919-638-7892 Gary M. Birk (Outside office hours)

SDS No. N/A

2. Hazard Identification

2.1 Relevant identified uses of the substance or mixture

GHS classification in accordance with 29 CFR 1910.1200
Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

3. Composition/Information on Ingredients

3.1 Substance

Not applicable

3.2 Mixture

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

No hazardous ingredients

4. First Aid Measures

4.1 Description of first aid measures

General information

Check the vital functions. If unconscious place in recovery position and seek medical advice. In case of respiratory arrest, administer artificial respiration. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Take victim to a doctor if irritation persists.

Remove affected person from source of contamination.

Inhalation

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

Drink plenty of water. DO NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Skin contact

Wash off promptly and flush contaminated skin with water. Promptly remove clothing of soaked through and flush skin with water. Get medical attention if irritation persists after washing. Do not apply (chemical) neutralizing agents.

Eye contact

Promptly wash eye with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention. Do not apply (chemical) neutralizing agents. In case of eye irritation consult an ophthalmologist. Remove any contact lenses and open eyelids wide apart.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact	Causes skin irritation
Symptoms/injuries after eye contact	Eye damage / irritation

4.3 Indication of any immediate medical attention and special treatment needed

If exposed or concerned, get medical advice and attention

5. Fire Fighting Measures

5.1 Extinguishing media

Extinguishing media

Alcohol resistant foam. Carbon dioxide (CO₂). Dry chemicals, sand, dolomite, etc. Water spray

5.2 Special hazards arising from the substance or mixture

Fire hazard: 1 according to HMIS®. Material must be preheated before ignition will occur. Flash point above 200 °F (93 °C)

Explosion hazard: Not known.

Oxides of the following substances: Carbon, Sulfurous gases (SO_x)

5.3 Advice for firefighters

Special Fire Fighting Procedures

Cool containers exposed to flames with water until well after the fire is out. Use water spray to reduce vapors. If risk of water pollution occurs, notify appropriate authorities. Avoid water in straight hose stream; will scatter and spread fire. Keep upwind. Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Cool containers exposed to flames with water until well after the fire is out. Use water spray to reduce vapors. If risk of water pollution occurs, notify appropriate authorities. Avoid water in straight hose stream; will scatter and spread fire. Wear positive-pressure, self-contained breathing apparatus (SCBA) and chemical protective clothing.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

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.

6.2 Environmental precautions

Environmental precautions Do not discharge into drains, sewers or watercourses or onto the ground. Inform the relevant authorities if this occurs.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Absorb in non-combustible material, vermiculite, dry sand or earth and place into containers.

6.4 Reference to other sections

Disposal see section 13.

7. Handling and Storage

7.1 Precaution for safe handling

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.

7.2 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.

7.3 Specific end use(s)

The above information describes explosively the safety requirements of the product and is based on our present-day-knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

8. Exposure controls/personal protection

8.1 Control parameters

8.2 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.

Eye/face protection

The following protection should be worn: Chemical splash goggles.

Hand protection

Neoprene. 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).

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

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.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Particulate filter, type P2.

9. Physical and Chemical Properties

Appearance: Clear liquid

Color: clear yellow to clear brown, amber

Odor: mild, characteristic
pH: 7
Melting Point (°C): -2°C
Boiling Point (°C): not determined
Flash Point (°C): >100°C (DIN 51758)
Specific Gravity (water=1): 0.99
Water Solubility (%): dispersible
Viscosity: 500cSt at 40°C (104°F)
VOC content: <1%
Vapor Pressure (mmHg): not determined

10. Stability and reactivity

Stability: Stable at normal temperatures and pressures.
Incompatibility: None, avoid flames and strong oxidizing substances and strong acids.
Hazardous Polymerizations: Do not occur.
Hazardous Decomposition: No hazards to be specially mentioned

11. Toxicological Information

Carcinogenicity: No data available

IARC: 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: 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.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Medical symptoms: Irritation of eyes and mucous membranes, dilate pupils, Rhinitis (inflammation of the nasal mucous membranes). General respiratory distress, unproductive cough. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo.

Oral:

Acute toxicity (oral)

LD50

Species: Rat (male/female)

Dose: >2.000 mg/kg

Method: OECD 423

Skin:

Acute toxicity estimate: 3,571 mg/kg

	Method: Calculation method
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
Specific target organ toxicity (single exposure):	Not classified
Specific target organ toxicity (repeated exposure):	Not Classified
Aspiration hazard:	Not classified
Symptoms/injuries after inhalation:	Not classified
Symptoms/injuries after skin contact:	Not classified
Symptoms/injuries after eye contact:	Not classified
Symptoms/injuries after ingestion:	Not classified

12. Ecological Information

Chemical Fate Information: Product is readily biodegradable in wastewater treatment systems.

Biodegradability: Slow, not readily degradable Method: OECD 301 D

Chemical Oxygen Demand: 2.324 mg/g DIN 38409 T.31

Bioaccumulative potential: No data available

Aquatoxicity, invertebrates: Species: *Daphnia magna*
Exposure duration: 48 h
EC50: > 100 mg/l
Method: OECD 202

Aquatoxicity, algae / aquatic plants: Species: *Scenedesmus subspicatus*
Exposure duration: 72 h
EbC50: 341 mg/l
Method: OECD 201

13. Disposal Considerations

Dispose according to federal, state and local laws. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Authority. Waste is suitable for incineration.

14. Transport Information

ADR

Transport document description:

Transport by sea: No additional information available

Air transport: No additional information available

IATA Not regulated as dangerous goods
IMDG Not regulated as dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

National Regulations

DOT Classification
Not regulated as dangerous goods

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

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

TSCA - 5(a) Significant New Use Rule List of Chemicals

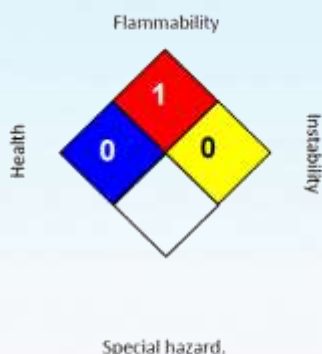
No substances are subject to a Significant New Use Rule.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No substances are subject to TSCA 12(b) export notification requirements.

16. Other Information

NFPA 704:



HMIS® IV:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Revision Date : 03/08/2018

Only Trained personnel should use this material.

The information contained in this sheet is for information purposes only. Its completeness and accuracy are not guaranteed.

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.