

SAFETY DATA SHEET

Revision date 2015-03-19

Revision number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name OIL-PRO OME-11

Other means of identification

Product code 1572K
Synonyms Drilling Fluid Emulsifier

Recommended use of the chemical and restrictions on use

Recommended use [RU] No information available
Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier ARC Products Inc
4010 La Reunion Parkway
Suite 160
Dallas, TX 75212

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC: (800) 424-9300
Outside USA - 00 1 (703) 527-3887 collect calls accepted

Contact Point safety-data-sheet-fp@geosc.com

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2

GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

Physical state liquid	Color amber	Appearance clear	Odor slight odor
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**DANGER****Hazard statements**

Causes serious eye damage
Suspected of causing cancer
May cause damage to organs through prolonged or repeated exposure

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

- Causes mild skin irritation
- Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	weight-%	TRADE SECRET
Oleic acid diethanolamine	93-83-4	93%	--
Diethanolamine	111-42-2	< 7%	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES**First Aid Measures****Eye contact**

Remove contact lenses, if worn. Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Seek medical advice immediately.

Skin contact

Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Ingestion

Do NOT induce vomiting. If vomiting should occur spontaneously, keep airway clear. Never give anything by mouth to an unconscious person. Get medical attention.

Inhalation

Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Most important symptoms and effects, both acute and delayed**Acute effects**

Risk of serious damage to eyes. Mild skin irritant. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Chronic effects

Contains a known or suspected carcinogen. May cause damage to organs through prolonged or repeated exposure: Liver, Kidneys.

Aggravated Medical Conditions

Liver disorders. Kidney disorders. Central nervous system disorders. Existing skin, eye and lung conditions.

Indication of any immediate medical attention and special treatment needed**Note to physicians**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media**Suitable extinguishing media**

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

No information available

Special hazards arising from the substance or mixture**Special Hazard**

Slippery, can cause falls if walked on.

Advice for firefighters**Firefighting measures**

Cool exposed containers with water spray after extinguishing fire.

Special protective equipment for firefighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

Explosion data**Sensitivity to Mechanical Impact**

None.

Sensitivity to Static Discharge

None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Wear suitable protective clothing and gloves.

Environmental precautions

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Clear spills immediately. Soak up small spills with inert absorbent material and place in a labeled waste container for disposal. Contain large spill and remove using a vacuum truck. Spills of solution are extremely slippery so all residue must be removed promptly. Ventilate area of leak or spill.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Keep container closed when not in use

Avoid contact with eyes, skin and clothing

Wear chemical splash goggles, gloves, and protective clothing when handling.

Wash thoroughly after handling

Avoid breathing vapor or mist

Use only in well-ventilated areas

Use respiratory protection where mists or vapors may be generated.

Do not take internally

FOR INDUSTRIAL USE ONLY.

Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Do not store in direct sunlight.

Store in a cool, dry place.

Warm to 122° F (50° C) and mix well before using.

Protect from freezing in storage and transit.

Product may congeal or stratify if cold.

Incompatible products

Nitrites. Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Component	weight-%	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diethanolamine 111-42-2	< 7%	1 mg/m ³ TWA (inhalable fraction and vapor) Skin - potential significant contribution to overall exposure by the cutaneous route	--	--

Appropriate engineering controls

Engineering controls

Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details. If there are no applicable or established exposure limit requirements or guidelines, general ventilation should be sufficient.

Individual protection measures, such as personal protective equipment

Eye/face Protection

Wear chemical splash goggles and face shield (when eye and face contact is possible due to splashing or spraying of material).

Hand Protection

Appropriate chemical resistant gloves should be worn.

Skin and body protection

Standard work clothing and work shoes.

Respiratory protection

If exposures exceed the PEL or TLV, use NIOSH/MSHA approved respirator in accordance with OSHA Respiratory Protection Requirements under 29 CFR 1910.134. If there are no applicable or established exposure limit requirements or guidelines, general ventilation should be sufficient.

Other personal protection data

Eyewash fountains and safety showers must be easily accessible.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid
Color	amber
Appearance	clear
Odor	slight odor
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks / Method</u>
pH	6 - 10	1% solution in neutralized DI water
Melting / freezing point	No information available	No information available
Boiling point / boiling range	No information available	No information available

Flash point	No information available	No information available
Evaporation rate	No information available	No information available
Flammability (solid, gas)	No information available	No information available
Flammability Limit in Air		
Upper flammability limit	No information available	No information available
Lower flammability limit	No information available	No information available
Vapor pressure	No information available	No information available
Vapor density	No information available	No information available
Specific gravity	~ 0.944	No information available
Solubility (water)	Soluble	No information available
Solubility in other solvents	No information available	No information available
Partition coefficient: n-octanol/water	No information available	No information available
Autoignition temperature	No information available	No information available
Decomposition temperature	No information available	No information available
Kinematic viscosity	No information available	No information available
Dynamic viscosity	No information available	No information available

Other information

Density	~ 7.5 lb/gal
Bulk Density	No information available
Explosive properties	No information available.
Oxidizing properties	No information available
Softening point	No information available
Molecular weight	No information available
Volatile organic compounds (VOCs) content	No information available
Percent Volatile, wt. %	No information available

10. STABILITY AND REACTIVITY

Reactivity

Reactivity
No data available.

Chemical stability

Chemical stability
Stable under normal conditions of handling, use and transportation.

Possibility of hazardous reactions

Possibility of hazardous reactions
None under normal processing.

Hazardous polymerization
Not anticipated under normal or recommended handling and storage conditions.

Conditions to avoid

Conditions to avoid
None.

Incompatible materials

Materials to avoid
Nitrites. Oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products
Aldehydes. Ketones. Ammonia. Nitrogen oxides (NOx). Carbon oxides.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Eye contact
May cause severe eye irritation and burns.

Skin contact
Mild skin irritation. Prolonged contact may cause more severe irritation and discomfort, seen as local redness and swelling.

Ingestion
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation
Excessive inhalation causes headache, dizziness, nausea and incoordination.

Acute toxicity - Product Information

Oral LD50	No information available
Dermal LD50	No information available
Inhalation LC50	No information available

Acute toxicity - Component Information

Component	weight-%	Oral LD50	Dermal LD50	Inhalation LC50
Oleic acid diethanolamine 93-83-4	93%	= 12400 µL/kg (Rat)	--	--
Diethanolamine 111-42-2	< 7%	0.62 mL/kg (Rat)	--	--

Information on toxicological effects

Symptoms
No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation
Mild skin irritation

Serious eye damage/eye irritation
Risk of serious damage to eyes

Sensitization

No information available

Germ cell mutagenicity

No information available

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA
Diethanolamine 111-42-2	A3	Group 2B	--	X

Legend**ACGIH (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)

-- - Not Listed

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity

No information available

Specific target organ toxicity - Single exposure

No information available.

Specific target organ toxicity - Repeated exposure

May cause damage to organs through prolonged or repeated exposure: Liver, Kidney.

Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 5596 mg/kg

Other information

Conclusions are drawn from sources other than direct testing.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

- Toxic to aquatic life with long lasting effects

Acute aquatic toxicity - Product Information

Fish No information available

Crustacea No information available

Algae/aquatic plants No information available

Acute aquatic toxicity - Component Information

Component	weight-%	Algae/aquatic plants	Fish	Toxicity to daphnia and other aquatic invertebrates
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Diethanolamine 111-42-2	< 7%	EC50 (72 h) = 7.8 mg/L (Desmodesmus subspicatus) EC50 (96 h) 2.1 - 2.3 mg/L (Pseudokirchneriella subcapitata)	LC50 (96 h flow-through) 4460 - 4980 mg/L (Pimephales promelas) LC50 (96 h static) 1200 - 1580 mg/L (Pimephales promelas) LC50 (96 h static) 600 - 1000 mg/L (Lepomis macrochirus)	EC50 (48 h) = 55 mg/L (Daphnia magna)
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Persistence and degradability**Persistence and degradability**

No information available

Bioaccumulative potential**Bioaccumulative potential**

No information available

Mobility**Mobility**

No information available

Results of PBT and vPvB assessment**PBT and vPvB assessment**

No information available

Other adverse effects**Other information**

No other ecological studies have been carried out on this product.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods**Disposal of wastes**

Dispose of product in an approved chemical waste landfill or incinerate in accordance with applicable Federal, state and local regulations. Avoid landfilling liquids.

Contaminated packaging

Since empty containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT

Regulated in bulk quantities.

DOT UN/NA Number
Proper shipping name
Hazard class
Packing group
ERG Number
Reportable Quantity (RQ)
DOT Shipping Name > RQ

UN3082
Environmentally Hazardous Substance, Liquid, N.O.S. (Contains Diethanolamine)
9
III
171
1,400 lbs/190 gal
UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (contains Diethanolamine),
9, PG III, RQ (Diethanolamine), ERG #171

ICAO/IATA

Regulated in bulk quantities.

UN number
Proper shipping name
Hazard class
Packing group

UN3082
Environmentally Hazardous Substance, Liquid, N.O.S. (Contains Diethanolamine)
9
III

ERG Code	9L
IMDG	Regulated in bulk quantities.
UN number	UN3082
Proper shipping name	Environmentally Hazardous Substance, Liquid, N.O.S. (Contains Diethanolamine)
Hazard class	9
Packing group	III
EmS	F-A; S-F

15. REGULATORY INFORMATION

International Inventories

TSCA (United States)

All ingredients are on the inventory or exempt from listing

Australia (AICS)

All ingredients are on the inventory or exempt from listing

Canada (DSL)

All ingredients are on the inventory or exempt from listing

Canada (NDSL)

None of the ingredients are on the inventory.

China (IECSC)

All ingredients are on the inventory or exempt from listing

EINECS (European Inventory of Existing Chemical Substances)

All ingredients are on the inventory or exempt from listing

ELINCS (European List of Notified Chemical Substances)

None of the ingredients are on the inventory.

ENCS (Japan)

All ingredients are on the inventory or exempt from listing

South Korea (KECL)

All ingredients are on the inventory or exempt from listing

Philippines (PICCS)

All ingredients are on the inventory or exempt from listing

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

AICS - Australian Inventory of Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - China Inventory of Existing Chemical Substances

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

U.S. Federal Regulations

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Component	CERCLA/SARA Hazardous Substance RQ	CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs	Calculated Product RQ
Diethanolamine 111-42-2	100 lb final RQ; 45.4 kg final RQ	--	1400 lbs/190 gal

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).

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	No

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	weight-%	SARA 313 - Threshold Values %
Diethanolamine 111-42-2	< 7%	1.0 % de minimis concentration

• As indicated above, this product contains an ingredient(s) subject to the reporting requirements of SARA Title III, Section 313 (40 CFR Part 372). This document constitutes the notification required by the SARA regulations and this notification statement must not be detached from the MSDS. If the MSDS is copied for any reason, including distribution, this notice must also be copied and accompany all redistributed MSDS's. Failure to do so may subject you to penalties under law.

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Component	California Proposition 65
Diethanolamine 111-42-2	carcinogen, initial date 6/22/12

U.S. State Right-to-Know Regulations

Diethanolamine 111-42-2	
Massachusetts Right to Know Law	Present
Minnesota Hazardous Substance List	Present
New Jersey Right to Know List	sn 0686
Pennsylvania Right to Know List	Environmental hazard

16. OTHER INFORMATION

NFPA Rating	Health - 2	Flammability - 1	Instability - 0	Special Hazard -
HMIS Rating	Health - 2	Flammability - 1	Physical hazard - 0	Personal protection - X

Product code	1572K
Revision date	2015-03-19
Revision number	1

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