



WYO-BEN, INC.

SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: **Drill-X®**
Chemical Family: Surfactant
Application: Drilling detergent and wetting agent

Manufacturer/Supplier: Wyo-Ben, Inc.
1345 Discovery Drive
Billings, MT 59102 USA
Telephone: 1.406.800.7055
Facsimile: 1.406.656.0748

Emergency Phone Number: CHEMTREC® 1.800.424.9300

SECTION 2 — HAZARD IDENTIFICATION

OSHA/HCS status: Not classified

Classification: Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 1
Carcinogenicity: Category 2
Acute aquatic toxicity Category 2
Chronic aquatic toxicity Category 3

Hazard Symbols: Corrosion; Health Hazard

Signal Words: Danger

Hazard Statements: Causes skin irritation. Causes serious eye damage. Suspected of causing cancer.

Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye protection/face protection. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment.

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 doctor. If on skin: Wash with soap and plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

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

Supplemental information Not applicable.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percent
Alkanolamide blend	Confidential	4 - 5
Diethanolamine	111-42-2	0.8 – 1.0

SECTION 4 — FIRST AID MEASURES

Description of Necessary First Aid Measures

Inhalation:	Move to fresh air. Call a physician if symptoms develop or persist.
Skin:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, see a physician.
Eyes:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.
Ingestion:	Rinse mouth. Get medical attention if symptoms occur.

Most Important Symptoms, Effects, Acute and Delayed

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Indication of Immediate Medical Attention and Special Treatment Needed, if necessary

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5 — FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media: None known

Specific hazards arising from the chemical:

Gases hazardous to health may be formed during a fire.

Hazardous thermal

decomposition products:

Oxides of carbon and nitrogen

Protective equipment and

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting

equipment/instructions:

Cool containers exposed to flames with water until well after the fire is out.

General fire hazards:

No unusual fire or explosion hazards noted.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Environmental precautions

Environmental precautions: Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up

Small spill: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination

Large spill: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

SECTION 7 — HANDLING AND STORAGE

Precaution for safe handling

Advice on safe handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get this material in contact with eyes. Avoid contact with skin. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage including any incompatibilities

Storage conditions: Store locked up in a dry, cool and well-ventilated place. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Chemical Name	ACGIH TLV	NIOSH TLV
Diethanolamine (CAS 111-42-2)	TWA: 1 mg/m ³	TWA: 15 mg/m ³ ; 3 ppm

Biological limit values: No biological exposure limits noted for the ingredient(s).

Exposure guidelines: Occupational Exposure Limits are not relevant to the current physical form of the product.

US - California OELs: Skin designation

Diethanolamine (CAS 111-42-2) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Diethanolamine (CAS 111-42-2) Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

- Eye/face protection: Wear safety glasses with side shields (or goggles) and a face shield.
- Hand protection: Wear appropriate chemical resistant gloves.
- Skin protection: Wear appropriate chemical resistant clothing.
- Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.
- Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Red
Odor:	None
Odor Threshold:	No information available
pH:	9.0
Melting Point:	Not determined
Boiling Point:	100°C (212°F)
Flash Point:	Not determined
Evaporation Rate:	Not determined
Flammability (solid, gas):	Not determined but not expected to be flammable based on ingredients
Lower and upper explosive flammable limits:	Not determined
Vapor Pressure:	No information available
Vapor Density:	No information available
Specific Gravity:	Approximately 1
Density:	8.35 lbs/gal (based on calculation from specific gravity)
Solubility:	Soluble in water
Partition Coefficient: n-octanol/water:	No information available
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available

SECTION 10 — STABILITY AND REACTIVITY

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability:	The product is stable under recommended storage conditions.
Possibility of hazardous reactions:	None known under conditions of normal storage and use.
Conditions to avoid:	Product may be damaged if allowed to freeze.
Incompatible materials:	Strong acids
Hazardous decomposition products:	None known

SECTION 11 — TOXICOLOGICAL INFORMATION

Likely routes of exposure

Ingestion:	Expected to be a low ingestion hazard.
Inhalation:	No adverse effects due to inhalation are expected.
Skin contact:	Causes skin irritation.
Eye contact:	Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute Toxicity:	Not available
Skin Corrosion/Irritation:	Causes skin irritation
Serious Eye Damage/Irritation:	Causes serious eye damage
Respiratory Sensitization:	Not available
Skin Sensitization:	Not expected to cause skin sensitization
Germ Cell Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity:	Contains an ingredient suspected of causing cancer IARC Monographs. Overall Evaluation of Carcinogenicity Diethanolamine (CAS 111-42-2) 2B Possibly carcinogenic to humans. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

Reproductive toxicity:	This product is not expected to cause reproductive or developmental effects.
STOT - single exposure:	No Information available.
STOT - repeated exposure:	No Information available.
Chronic toxicity:	Prolonged exposure may cause chronic effects.
Aspiration hazard	No Information available.

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Components	Species	Test Results
PEG-(n=>3) cocamide (CAS 61791-08-0)		
Acute		
Crustacea EC50	Daphnia	73.55 ppm, 48 hours
Fish LC50	Fish	78.86 ppm, 96 hours

Persistence and degradability

Readily biodegradable.

Bioaccumulation

No Information available.

Mobility in Soil:

No data available

Other adverse effects:

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents / container in accordance with local/regional/national/international regulations.

Waste from residues / unused Products:

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

SECTION 14 — TRANSPORT INFORMATION

DOT

UN number	UN3082
UN proper shipping name	Environmentally Hazardous Substance, Liquid, N.O.S. (Diethanolamine RQ = 568 lbs)
Transport hazard class(es)	
Class:	9
Subsidiary risk:	-
Packing group:	III
Special precautions for user:	Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number UN3082

UN proper shipping name RQ, Environmentally Hazardous Substance, Liquid, N.O.S. (Diethanolamine)

Transport hazard class(es)

Class: 9

Subsidiary risk: -

Packing group: III

Environmental hazards: No

Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number: UN3082

UN proper shipping name: RQ, Environmentally Hazardous Substance, Liquid, N.O.S. (Diethanolamine)

Transport hazard class(es): Class 9

Subsidiary risk: -

Packing group: III

Environmental hazards

Marine pollutant: No

EmS: Not available

Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

SECTION 15 — REGULATORY INFORMATION
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An ingredient in this product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4)
 Diethanolamine (CAS 111-42-2) Listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
 Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
 Hazard categories Immediate Hazard - Yes
 Delayed Hazard - Yes
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance - No
 SARA 311/312 Hazardous chemical - Yes
 SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Diethanolamine	111-42-2	16 - 19

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Diethanolamine (CAS 111-42-2)

US state regulations

US - New Jersey Community RTK (EHS Survey): Reportable threshold
Diethanolamine (CAS 111-42-2) 500 lbs

US - Pennsylvania RTK - Hazardous Substances: Listed substance
Diethanolamine (CAS 111-42-2)

US. Massachusetts RTK - Substance List
Diethanolamine (CAS 111-42-2)

US. Rhode Island RTK
Diethanolamine (CAS 111-42-2)

US. California Proposition 65
Warning: This product contains a chemical known to the State of California to cause cancer: Cocamide diethanolamine (68603-42-9)
WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
Diethanolamine (CAS 111-42-2) Listed: June 22, 2012

US - California Proposition 65 - CRT: Listed date/Developmental toxin
Methanol (CAS 67-56-1) Listed: March 16, 2012

SECTION 16 — OTHER INFORMATION

Prepared: 01/10/2013

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DISCLAIMER

All information presented herein is believed to be accurate, however, it is the user's responsibility to determine in advance of need that the information is current and suitable for their circumstances. No warranty or guarantee, expressed or implied is made by WYO-BEN, INC. as to this information, or as to the safety, toxicity or effect of the use of this product.