

Consolidated Oil Well Services, Inc.
P.O. Box 884
Chanute, KS 66720

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : CL-142
Chemical Name : Not Applicable, A Blend
Chemical Family : Not Applicable, A Blend
Manufacturer : CESI Chemical (a Flotek Industries, Inc. company)
: 1004 S. Plainsman Road, Marlow, OK 73055
Emergency Phone : (405) 282-8510
Prepared by : Denise Patterson
Phone : (580) 658-6608
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient : Ethylene Glycol
CAS No. : 107-21-1
Wt. Percent Range : 25-50
OSHA PEL : 50 ppm (Ceiling)
ACGIH TLV : 100 mg/m³ (Ceiling as aerosol)
LD50 : Oral 4700 mg/kg (rat), 7500 mg/kg (mouse) Goldfish >5,000 mg/l/24 hr
LC50 : Guppies 49,300 ppm/7 days, Rainbow trout 18,500 mg/l/96 hr, Brown shrimp
>100 mg/l/48 hr aerated salt water

Ingredient : Borate
CAS No. : 12280-03-4
Wt. Percent Range : 10-30
OSHA PEL : 10 mg/m³
ACGIH TLV : 10 mg/m³
LD50 : Oral 2,550 mg/kg (rat) Dermal 2,000 mg/kg (rabbits)
LC50 : Inhalation 2 mg/l (rat)

Ingredient : Ethanolamine
CAS No. : 141-43-5
Wt. Percent Range : 1-10
OSHA PEL : 3 ppm
ACGIH TLV : 3 ppm
LD50 : Oral >1-2 g/kg (rat) Dermal >1 g/kg (rabbit)
LC50 : No data available

3. HAZARDS IDENTIFICATION

Human health hazards
Acute health hazards : Irritant. Harmful if swallowed.
Chronic health hazards : None known
Route(s) of entry : Eyes, skin and ingestion
Safety hazards : None known
Environmental hazards : No information is available on the product.

4. FIRST AID MEASURES

Eye : Remove contact lenses at once. Immediately flush with copious amounts of water for at least 15 minutes while holding eyelids open. If irritation persists, seek medical attention.
Skin : Wash affected area thoroughly with soap and water for at least 15 minutes or until product is removed. Remove contaminated clothing and launder before reuse. If irritation develops, seek medical attention.
Inhalation : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek prompt medical attention.
Ingestion : Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flash Point	:	>200 °F (>93.3 °C)
Lower Explosion Limit	:	Not applicable
Upper Explosion limit	:	Not applicable
Extinguishing Media	:	Use extinguishing media appropriate for surrounding fire.
Protective equipment	:	NIOSH/MSHA approved self-contained breathing apparatus (SCBA) and turnout gear.
Hazardous combustion products	:	Oxides of carbon

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Wear hand, eye, protective clothing and respiratory protective equipment to eliminate contact.
General precautions	:	Eliminate ignition sources. Evacuate all non-essential personnel.
Small spills	:	Soak up residue with an inert absorbent and place into appropriate containers for disposal or reclamation. Flush contaminated area thoroughly with water. Retain washings as contaminated waste.
Large spills	:	If possible stop the flow of chemical. Dike to contain and prevent spreading. Remove with vacuum truck or pump to salvage vessels. Treat residue as for small spills.

7. HANDLING AND STORAGE

Handling	:	Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Use with adequate ventilation. Do not take internally. Wear appropriate protective clothing and equipment during handling. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.
Storage	:	Keep container closed when not in use. Store drums with the bung up. Carefully vent container before removing bung.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure standards	:	Not established for the product.
Hand protection	:	Nitrile rubber gloves.
Eye protection	:	Chemical splash goggles and face shield if conditions warrant.
Respiratory protection	:	Not normally required.
Engineering control measures	:	General (mechanical) room ventilation is expected to be satisfactory.
Other	:	Emergency eye wash fountains and safety showers should be in the immediate vicinity of any potential exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Liquid
Appearance	:	Clear
Color	:	Colorless
Odor	:	Mild
Specific Gravity	:	1.215
Bulk Density	:	10.14 lbs/gal
Boiling Point	:	No data available
Freezing Point	:	<0 °F (<-17.8 °C)
Solubility in water	:	Complete
pH	:	8-9
Percent Volatiles	:	No data available
Vapor Pressure	:	No data available

10. STABILITY AND REACTIVITY

Stability	:	Stable
Conditions to avoid	:	None known
Hazardous polymerization	:	Will not occur
Hazardous decomposition products	:	Oxides of carbon
Incompatibility	:	Strong oxidizing agents

11. TOXICOLOGICAL INFORMATION

Acute Effects
Eye : May cause mild to moderate irritation.
Skin : May cause mild to moderate irritation with brief contact.
Inhalation : May cause nose, throat and general upper respiratory tract irritation, coughing and headache.
Ingestion : Product is harmful if swallowed. May cause irritation to the mouth and throat, nausea, vomiting and diarrhea.
Chronic Effects : No other known chronic effects.
Carcinogenicity : None of the ingredients are listed in NTP, IARC monographs or OSHA regulated.

12. ECOLOGICAL INFORMATION

Environmental Fate : Biodegradability does not apply to inorganic substances.

13. DISPOSAL CONSIDERATIONS

Waste disposal : Recycle if possible. Otherwise dispose to licensed disposal contractor.
Product disposal : Recycle if possible. Otherwise comply with all local, state and federal regulations.
Container disposal : Drain container thoroughly. Triple rinse with water. Send to reclaimer or dispose of properly. Comply with all local, state and federal regulations.

14. TRANSPORT INFORMATION

LAND (D.O.T.)

Shipping Name : Not Regulated
Label(s) required : None
Emergency Phone : (405) 282-8510

AIR (IATA)

Shipping Name : Not Regulated
Label(s) required : None

SEA (IMDG)

Shipping Name : Not Regulated
Label(s) required : None

15. REGULATORY INFORMATION

This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.
OSHA Classification : Not Regulated
TSCA (USA) : All components listed.
DSL (Canada) : All components listed.
SARA Title III
Section 302 : Extremely Hazardous Substances (40CFR355): This product does not contain ingredients listed in Appendix A and B.
Sections 311/312
Immediate (acute) health hazard : YES
Delayed (chronic) health hazard : NO
Fire hazard : NO
Sudden Release of Pressure Hazard : NO
Reactive Hazard : NO
Section 313 Reportable Quantities : YES

CERCLA

If the reportable quantity of this product is accidentally spilled, the incident is subject to the provisions of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and must be reported to the National Response Center by calling (800) 424-8802.

Reportable Quantity : Ethylene Glycol 5,000 lbs

16. OTHER INFORMATION

NFPA 704

Health : 1
Fire : 1
Reactivity : 0
Special : None

HMIS

Health : 1
Fire : 1
Reactivity : 0
Special : None

Disclaimer of Liability : The information contained in this MSDS was obtained from sources that we believe are reliable. However, the information is without any warranty, express or implied, regarding correctness. The methods of handling, storage, use and disposal of the product are beyond our control and may be outside the scope of our knowledge. For these reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.