

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

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : CDI-33
Chemical Name : Sulfonated organic polymer
Chemical Family : Not Applicable
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
Issue Date : 02/12/2004
Revised Date : 03/03/2009

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient : This product does not contain any reportable hazardous components as defined in 29 CFR 1910. 1200
CAS No. :
Wt. Percent Range :
OSHA PEL :
ACGIH TLV :
LD50 :
LC50 :

3. HAZARDS IDENTIFICATION

Human health hazards
Acute health hazards : Eye irritant.
Chronic health hazards : None known
Route(s) of entry : Eyes
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. 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 : Not applicable
Lower Explosion Limit : Not applicable
Upper Explosion limit : Not applicable
Extinguishing Media : Water spray or fog, foam, dry chemical or CO₂. Solid stream of water may spread the fire.
Protective equipment : NIOSH/MSHA approved self-contained breathing apparatus (SCBA) and turnout gear.
Hazardous combustion products : Burning will produce hazardous compounds including oxides of carbon and sulfur.

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 : Collect material and place in a disposal container. Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.
- Large spills : Treat as for small spills.

7. HANDLING AND STORAGE

- Handling : Avoid contact with eyes, skin and clothing. 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 : Store away from heat, sparks, open flames and other sources of ignition. Store in a cool, dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Occupational exposure standards : Not established for the product.
- Hand protection : Impermeable gloves.
- Eye protection : Safety glasses with side shields
- 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 : Solid
- Appearance : Powder
- Color : Red-Brown
- Odor : Mild
- Specific Gravity : Not applicable
- Bulk Density : 31.2-43.7 lb/ft³
- Boiling Point : Not available
- Freezing Point : Not available
- Solubility in water : Complete
- pH : 8-11.4 @ 20°C
- Percent Volatiles : Not applicable
- Vapor Pressure : Not applicable

10. STABILITY AND REACTIVITY

- Stability : Stable under normal storage conditions
- Conditions to avoid : Operations that create dust. Avoid high temperatures and sources of ignition.
- Hazardous polymerization : Will not occur under normal conditions
- Hazardous decomposition products : Oxides of Carbon and Sulfur
- Incompatibility : Strong oxidizing agents

11. TOXICOLOGICAL INFORMATION

- Acute Effects
- Eye : Dust may cause irritation.
- Skin : No hazard expected in normal use.
- Inhalation : No hazard expected in normal use
- Ingestion : No hazard expected in normal use
- Chronic Effects : No known chronic effects.
- Carcinogenicity : None of the ingredients are listed in NTP, IARC monographs or OSHA regulated

12. ECOLOGICAL INFORMATION

Environmental Fate : Aquatic Toxicity Data (non-aqueous)
LC50 (Fish) : 7,478 mg/L (leuciscus idus-48h)
EC10 (Bacteria) : >3,200 mg/L (Pseudomonas putida)

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 : 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 : None

CERCLA
Reportable Quantity : None
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.

16. OTHER INFORMATION

NFPA 704

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

HMIS

Health : 1
Fire : 0
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.