

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

**MATERIAL SAFETY DATA SHEET**

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier : GB-120  
Chemical Name : Not Applicable  
Chemical Family : Oxidizer  
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 : 06/06/1997  
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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient : Ammonium Persulfate  
CAS No. : 7727-54-0  
Wt. Percent Range : 75-100  
OSHA PEL : No data available  
ACGIH TLV : 2 mg/mg<sup>3</sup>  
LD50 : Oral Acute 820 mg/kg (rat)  
LC50 : No data available

Ingredient : Silica, Crystalline-Quartz  
CAS No. : 14808-60-7  
Wt. Percent Range : 1-10  
OSHA PEL : 0.1 mg/mg<sup>3</sup>  
ACGIH TLV : 0.1 mg/mg<sup>3</sup>  
LD50 : Oral Acute 3160 mg/kg (rat)  
LC50 : No data available

**3. HAZARDS IDENTIFICATION**

Human health hazards  
Acute health hazards : Eye, skin, inhalation and ingestion irritant  
Chronic health hazards : Possible allergic reaction  
Route(s) of entry : Eyes, skin, inhalation and ingestion  
Safety hazards : Oxidizer  
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 irritation is experienced, mouth and throat may be rinsed with water. Particles adhering to the nasal cavity may be rinsed / diluted with saline / plain water. If irritation or asthma-like symptoms persist, 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	: Deluge with water. Do not use carbon dioxide or other gas-filled fire extinguishers, as they will have no effect on decomposing persulfates.
Protective equipment	: NIOSH/MSHA approved self-contained breathing apparatus (SCBA) and turnout gear.
Hazardous combustion products	: Oxides of sulfur, sulfuric and ammonia, phosphines, oxides of nitrogen, oxygen which may support combustion and ozone.

## 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	: Same as for large spills.
Large spills	: Sweep up and scoop into containers for reuse or disposal. Avoid producing dust. Avoid entry of large amounts of product into sewers, natural waters and drinking water. Follow all local, state and federal regulations regarding the disposal of this material.

## 7. HANDLING AND STORAGE

Handling	: Avoid contact with eyes, skin and clothing. Avoid breathing dust. 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	: Oxidizers should be stored in a separate safety storage cabinet or room. Keep in a tightly closed container, stored in a dry, ventilated area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure standards	: Not established for the product.
Hand protection	: Nitrile rubber gloves.
Eye protection	: Safety goggles
Respiratory protection	: Dust mask or appropriate respiratory protection equipment.
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	: Granules
Color	: White to off-white
Odor	: Slightly acrid
Specific Gravity	: 1.814
Bulk Density	: No data available
Boiling Point	: Not applicable
Freezing Point	: Not applicable
Solubility in water	: Partially soluble
pH	: 4.5-5.5
Percent Volatiles	: Not applicable
Vapor Pressure	: Not applicable

## 10. STABILITY AND REACTIVITY

Stability	: Stable
Conditions to avoid	: Moisture and reducing agents
Hazardous polymerization	: Will not occur
Hazardous decomposition products	: Oxides of sulfur, sulfuric and ammonia, phosphines, oxides of nitrogen, oxygen which may support combustion and ozone.
Incompatibility	: Highly reactive with reducing agents and organic materials. Reactive with metals and moisture. Slightly reactive with acids and alkalis.

## 11. TOXICOLOGICAL INFORMATION

Acute Effects	
Eye	: Causes eye irritation.
Skin	: Causes skin irritation. May cause skin sensitization and allergic reaction upon repeated exposure which becomes evident upon re-exposure.
Inhalation	: Causes respiratory tract irritation. Inhalation may be fatal as a result of spasm, inflammation and edema of the respiratory tract.
Ingestion	: Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.
Chronic Effects	: Repeated or prolonged exposure may cause allergic reaction to sensitive individual. Allergy may develop with repeated exposures.
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.
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## 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	: UN1444, Ammonium Persulfate, 5.1, PG III
Label(s) required	: Oxidizer
Emergency Phone	: (405) 282-8510

### AIR (IATA)

Shipping Name	: UN1444, Ammonium Persulfate, 5.1, PG III
Label(s) required	: Oxidizer

### SEA (IMDG)

Shipping Name	: UN1444, Ammonium Persulfate, 5.1, PG III
Label(s) required	: Oxidizer

## 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	: Oxidizer
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	: YES
Fire hazard	: NO
Sudden Release of Pressure Hazard	: NO
Reactive Hazard	: NO
Section 313 Reportable Quantities	: None

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 : Not determined for the product.

**16. OTHER INFORMATION**

NFPA 704  
Health : 1  
Fire : 0  
Reactivity : 1  
Special : None

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

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