

**B-350 Cement Retarder SDS Safety Data Sheet**  
**MSDS Sheet, Material Safety Data Sheet**

**1. Product Identification**

Product Name: B-350

Intended Use: Oil & Gas Wells Cementing and Industrial Manufacturing.

**SUPPLIER**

Company: Finoric LLC

Address: 8115 Loop 540, Beasley, Texas, 77417 USA

**In case of emergency contact:**

**InfoTrac**

**US: 1-800-535-5053**

**International: 352-323-3500**

**2. Hazards Identification**

**GHS, Globally Harmonized System Classification in accordance with 29 CFR 1910  
Classification according to Regulation (EC) No 1272/2008**

Acute toxicity, Oral Category 4

Skin corrosion/irritation Category 1A, B, C

Acute toxicity, Inhalation Category 4



Specific target organ toxicity, single exposure; Respiratory tract irritation Category 3

Reproductive toxicity Category 2

Specific target organ toxicity, repeated exposure Category 2

Hazardous to the aquatic environment, acute hazard Category 3

**Labeling according GHS USA & Regulation (EC) No 1272/2008**

GHS Label Elements	GHS Label Elements
 A red diamond-shaped hazard pictogram showing two hands being corroded by liquid dripping from test tubes.	 A red diamond-shaped hazard pictogram showing a black silhouette of a human figure with a white starburst on the chest, indicating a health hazard.
Corrosive	Health Hazard

**Signal Words: Danger**



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#### **Hazard Statements:**

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H332: Harmful if inhaled.  
H335: May cause respiratory irritation.  
H361: Suspected of damaging fertility or the unborn child.  
H373: May cause damage to organs through prolonged or repeated exposure through the oral route.  
H402 Harmful to aquatic life.

#### **Precautionary Statements:**

P260: Do not breathe dust/fume/gas/mist/vapors/spray.  
P262: Do not get in eyes, on skin, or on clothing.  
P264: Wash contaminated parts thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P314: Get medical advice/attention if you feel unwell.  
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P302+352: IF ON SKIN: Wash with plenty of soap and water.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
P360: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.  
P403 P404: Store in well-ventilated place. Keep container tightly closed.  
P501: Dispose of contents/container in accordance with local/national regulation.

#### **Classification according to EU Directives 67/548/EEC or 1999/45/EC:**

Xn Harmful  
Xi Irritant  
C Corrosive  
N Dangerous for the environment  
R20/22 Harmful by inhalation and if swallowed.  
R41 Risk of serious damage to eyes.  
R43 May cause sensitisation by skin contact.  
R50 Very toxic to aquatic organisms.

#### **S-phrase(s):**

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S61 Avoid release to the environment.

For the full text of the H-statements & R-phrases mentioned in this Section, see Section 16.



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### 3. Composition/Information on Ingredients

Component: Non-Haz Chemical Mixture

CAS No.: NA

EINECS EC Number: NA

Percentage: 25%

Formula:

### 4. First Aid Measures

**Always seek medical attention after first aid measures are provided.**

Inhalation: Remove affected person to fresh air; if normal breathing has not returned within a few minutes after exposure, get medical attention.

Skin: Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse. Seek medical attention.

Eyes: Immediately, flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention immediately.

Ingestion: Drink two glasses of water followed by milk, milk of magnesia or other non-alcoholic liquids; Do not induce vomiting; seek medical attention immediately.

Physician may treat symptomcaly.

### 5. Fire Fighting Measures

Flash Point: >100° C (>212° F)

Flammable Limits:

LEL: Not Applicable

UEL: Not Applicable

NFPA CLASS: IIIB

General Hazards: Contact with eyes causes immediate severe irritation of the eye and eyelids. Product will support combustion.

Extinguishing Media: Carbon dioxide, water fog, dry chemical, chemical foam.

This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Keep containers cool by spraying with water. Use extinguishing media appropriate for surrounding fire.

Fire & Explosion Hazard: May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of phosphorus (POx) under fire conditions. May evolve oxides of sulfur (SOx) under fire conditions.

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit. Self-contained respiratory equipment; cool containers to prevent pressure buildup and possible explosion when exposed to extreme heat. Caution - material will support combustion!

Unusual Fire and Explosion Hazards: Closed containers can explode due to buildup of pressure when exposed to extreme heat.



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Hazardous Combustion Products: Products of combustion include smoke, toxic fumes, oxides of carbon to include carbon monoxide, phosphorous oxides, phosphine and sulfur oxides.

## 6. Accidental Release Measures

Will not support combustion. Avoid contact with eyes. Do not wash to sanitary sewer. Large spills - confine spill, soak up with approved absorbent, shovel product into approved container for disposal.

## 7. Handling and Storage

Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures, open flames. This material will support combustion. Keep this and other chemicals out of reach of children.

## 8. Exposure Controls/Personal Protection

Engineering Controls: The use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation of confined spaces. Use corrosion-resistant, explosion-proof ventilation equipment.

Exposure Limits: NA

Personal Protection: Respiratory Protection (Specify Type): None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds standard workplace limits, NIOSH approved respirator must be worn.

Hand Protection: Neoprene, butyl or nitrile rubber gloves with cuffs.

Eye Protection: Chemical safety goggles.

Other Protective Clothing Or Equipment: Apron, or other equipment should be worn to prevent skin contact, safety eyewash station nearby. Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

## 9. Physical and Chemical Properties

Appearance: Colorless liquid

Odor: Typical odor

Vapor Pressure (MM Hg): NA

Vapor Density (Air = 1): >1

Specific Gravity (water = 1): 1.1 to 1.3

Evaporation Rate (water = 1): >1

Solubility in Water: Complete

Freezing Point: Not determined

pH: 5 to 9

Boiling Point: 108-109 C (229F)

Physical State: Liquid

Viscosity: Like that of water



## 10. Stability and Reactivity

Stability: is stable at normal temperatures and operating conditions.

Conditions to Avoid: Avoid excessively high temperatures and contact with alkalis or strong oxidizing agents.

Incompatibilities: Strong Bases & Oxidizing Agent.

Decomposition: Decomposition yields carbon monoxide & dioxide, oxides of phosphorous, organophosphine vapors, & hydrogen.

Polymerization: Polymerization will not occur.

## 11. Toxicological Information

Eye: Irritation Eye contact may be painful and irritating.

Skin: Irritation Prolonged and repeated skin exposure may be painful and irritating.

Inhalation: Toxicity Inhalation of this product during manufacturing may be irritating.

Reproduction: Not evaluated.

Mutagenicity: Not mutagenic in AMES Test or via micronucleus test on mice.

Carcinogenicity: Not listed as a human carcinogen by OSHA, IARC, ACGIH & NTP. However, formaldehyde in it is listed.

Acute Oral Effects: NA

Acute Inhalation Effect: NA

Acute Dermal Toxicity: NA

4-Hour Inhalation LC50: – NA

## 12. Ecological Information

Toxicity to fish:

mortality LC50 - Lepomis macrochirus (Bluegill) - 97,00 mg/l - 96 h

mortality LC50 - Oncorhynchus mykiss (rainbow trout) - 94,00 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates: LC50 - Daphnia (water flea) - 15,00 mg/l - 48 h

Toxicity to algae: EC50 - Algae - 0,2 mg/l - 96 h

Neither COD nor BOD data are available. Biodegradation measured at >20% within a 28-day period (OECD 302B).

Results of PBT and vPvB assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Is not expected to bio-accumulate.

Based on hazard characterization, the potential environmental hazard is Moderate.

The Ecological Data is for un-diluted material.

## 13. Disposal Considerations

Dispose in accordance with Local, State, and Federal Regulations. Consult local, state, or Federal Environmental Protection Agency before disposing of any chemicals.

## 14. Transport Information

DOT USA & ADR/RID Non-Bulk & Bulk: NOT REGULATED

IMDG: NOT REGULATED

ICAO/IATA: NOT REGULATED

## 15. Regulatory Information

### UNITED STATES REGULATORY INFORMATION

SARA Listed: No

TSCA Inventory: Yes

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: This product may contain a maximum of 0.09% formaldehyde known to the state of California to cause cancer.

Pennsylvania, the Worker and Community Right-to-Know Act of 1986: This product contains a maximum of 0.09% formaldehyde an Environmental Hazard and Special Hazardous Substance.

Right to know list of Massachusetts, New Jersey, Pennsylvania

### CANADA REGULATORY INFORMATION

DSL: Yes; NDSL: No

## Section 16 - Additional Information

EINECS EC Number: 259-709-0

### European Labeling in Accordance with EC Directives

H301 = Toxic if swallowed.

H314 = Causes severe skin burns and eye damage.

H331 = Toxic if inhaled.

H335 = May cause respiratory irritation

H336 = May cause drowsiness and dizziness

H361 = Suspected of damaging fertility or the unborn child.

H370 = Causes damage to organs

H412 = Harmful to aquatic life with long lasting effects.

Xn = Harmful

Xi = Irritant

C Corrosive

N = Dangerous for the environment

R20/22 = Harmful by inhalation and if swallowed.

R41 = Risk of serious damage to eyes.

R43 = May cause sensitisation by skin contact.

R50 = Very toxic to aquatic organisms.



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Disclaimer:

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*The information and recommendations set forth herein are presented in good faith and believed correct as of the date the SDS was created. It is compiled from various sources and it is not necessarily all inclusive nor fully adequate in every circumstance. In addition, these suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements applicable. This SDS is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

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