

SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product identifier: GROUND CONTROL DETERGENT

Chemical Family: Complex blend of surface-active ingredients.

Product use: Drilling detergent, surfactant, specialty additive.

Supplier's Name and Address:

Radius HDD

2525 Ranger Hwy

Weatherford, TX 76088

Phone: (800) 892-9114

Emergency Phone:

SECTION 2 — HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Over exposure may cause kidney and liver damage. Prolonged inhalation may be harmful.

May cause eye, skin, and respiratory irritation. May be harmful if swallowed.

Wear proper PPE and practice good chemical hygiene.

POTENTIAL HEALTH EFFECTS

EYE: Liquid, aerosols and vapors of this product may be irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

SKIN: May cause skin irritation. Allergic reactions are possible. Passage of this material into the body through the skin is possible, which will add to the toxic effects from ingestion and inhalation.

INGESTION: This material may be harmful if swallowed.

INHALATION: Prolonged inhalation may be harmful and can cause headaches, dizziness, nausea, lachrymation, decreased blood pressure, changes in heart rate and cyanosis. May be irritating to mucous membranes and lung tissue.

CHRONIC INFORMATION: Over exposure may cause kidney and liver damage.

PRIMARY ROUTE(S) OF ENTRY: Skin absorption, Inhalation, Ingestion

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	ACGIH TLV	OSHA PEL		<u>TWA (ppm)</u>	<u>STEL (ppm)</u>
		<u>% (weight)</u>	<u>TWA (ppm)</u>	<u>STEL (ppm)</u>		
Proprietary Components	-	-	-	-	-	-

This material is not classified as hazardous under OSHA regulations (29CFR 1910.1200).

SECTION 4 — FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention, if irritation persists.

SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

INHALATION: Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

INGESTION: Get medical attention immediately. Do not give anything by mouth to an unconscious person. Place victim on left side with head down to prevent aspiration into lungs. Call a physician or poison control center immediately for advice on inducing vomiting.

SECTION 5 — FIRE FIGHTING MEASURES

Flammability classification (OSHA 29 CFR 1910.1200): Non-Combustible, Non Flammable

Flash point (Method): > 200°F

Auto-ignition temperature: N/Av.

Lower Combustible limit (% by vol.): N/Av.

Upper Combustible limit (% by vol.): N/Av.

Explosion data: Can release vapors that form explosive mixtures at temperatures at or above the flash point. Empty containers retain product residue (liquid and/or vapor) and can be dangerous.

Oxidizing properties: None known.

Suitable extinguishing media: Alcohol foam, carbon dioxide or dry chemical.

Special fire-fighting procedures/equipment: Containers can build up pressure if exposed to heat (fire). As in any fire, wear a self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Apply alcohol-type foam or all-purpose foam by manufacturers recommended techniques for large fires. Use carbon dioxide or dry chemical for small fires. Use water spray to keep containers cool.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Extinguish any possible ignition source until the area is determined to be free from fire or explosion hazard. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. (See exposure controls / personal protection section) Spilled material should be disposed of according to applicable regulations.

Special spill response procedures: In case of a transportation accident, contact CHEMTREC at 1-800-424-9300 day or night within USA and Canada: 1-800-424-9300 CCN725171. If a spill/release in excess of EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).

SECTION 7 — HANDLING AND STORAGE

Safe handling procedures: Handle all chemicals with care.

Storage requirements: Keep away from heat, sparks, and flames. Keep container closed when not in use. Store in a cool, dry, well ventilated place away from incompatible materials.

Special packaging materials: Always keep in containers made of the same materials as the supply container.

SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust ventilation may be necessary to control any air contaminants to within their exposure limits.

RESPIRATORY PROTECTION: No protection needed under normal use and conditions. Use a NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge when airborne concentrations are expected to exceed exposure limits. Protection by air purifying respirators is limited.

SKIN PROTECTION: When contact is likely wear chemical resistant gloves and boots.

EYE PROTECTION: Wear safety glasses with side shields or goggles.

OTHER PROTECTIVE EQUIPMENT: Emergency eye wash stations and deluge showers should be available in the work area.

HYGIENIC PRACTICES: Wash hands before eating. Use only with adequate ventilation. Remove contaminated clothing and wash before reuse.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical state, odor and appearance: Colorless Liquid

Odor threshold: No Distinct Odor

Specific gravity: Approx. 1.01

Vapor pressure (PSIG): N/Av.

Boiling point: N/Av.

Evaporation rate (n-Butyl acetate = 1): N/Av.

Viscosity: N/Av.

Solubility: Soluble

Vapor density (Air = 1): > 1.

Freezing point: N/Av.

pH: 6.0-8.0

SECTION 10 — REACTIVITY AND STABILITY DATA

Stability and reactivity: This product is stable under normal storage conditions.

Hazardous polymerization: Will not occur under normal use and storage conditions.

Conditions to avoid: Avoid temperature extremes. Excessive heat causes the vapor pressure to increase rapidly.

Materials to avoid (incompatibles): Avoid contact with strong oxidizers.

Hazardous decomposition products: Oxides of carbon and nitrogen.

SECTION 11 — TOXICOLOGICAL INFORMATION

Toxicological data: No product information is available.

Carcinogenic status: Not listed as carcinogen.

Reproductive effects, Teratogenicity, Mutagenicity: No product information is available.

Sensitization to material: None known.

Synergistic materials: N/Av.

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICITY: No product information is available.

CHEMICAL FATE INFORMATION: No product information is available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Handling for disposal: Handle according to recommendations listed in Section 7.

WASTE DISPOSAL: Consult local, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations. Disposal in streams or sewers may be prohibited by federal, state, and local regulations.

RCRA STATUS: None

SECTION 14 — TRANSPORTATION INFORMATION

United States 49 CFR information:

(NON-BULK SHIPMENTS)

D.O.T. PROPER SHIPPING NAME: Not Regulated

D.O.T. TECHNICAL NAME: Non-hazardous for D.O.T. purposes

D.O.T. HAZARD CLASS: N/A

HAZARD SUBCLASS: N/A

D.O.T. UN NUMBER: N/A

PACKING GROUP: N/A

RESP. GUIDE PAGE: N/A

(BULK SHIPMENTS)

D.O.T. PROPER SHIPPING NAME: Not Regulated

D.O.T. TECHNICAL NAME: Non-hazardous for D.O.T. purposes

D.O.T. HAZARD CLASS: N/A

HAZARD SUBCLASS: N/A

D.O.T. UN NUMBER: N/A

PACKING GROUP: N/A

RESP. GUIDE PAGE: N/A

T.D.G. PROPER SHIPPING NAME: Not Regulated

T.D.G. TECHNICAL NAME: N/A

T.D.G. HAZARD CLASS: N/A

HAZARD SUBCLASS: N/A

T.D.G. UN NUMBER: N/A

PACKING GROUP: N/A

RESP. GUIDE PAGE: N/A

IMDG PROPER SHIPPING NAME: Not Regulated

IMDG TECHNICAL NAME: N/A

IMDG HAZARD CLASS: N/A

HAZARD SUBCLASS: N/A

IMDG UN NUMBER: N/A

PACKING GROUP: N/A

EmS No.: N/A

SECTION 15 – REGULATORY INFORMATION

US Federal Information:

CERCLA – SARA HAZARD CATEGORY:

SECTION 311/312: This product has been reviewed according to the EPA ‘Hazard Categories’ promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD FIRE HAZARD

SARA SECTION 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<u>COMPONENT</u>	<u>CAS#</u>	<u>% BY WEIGHT</u>
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No SARA Section 313 components exist in this product.

TSCA STATUS:

All components of this product are listed on the Toxic Substance Control Act Inventory or are excluded from the listing requirements.

SECTION 16 – OTHER INFORMATION

NFPA/HMIS Rating:

0 - Insignificant 1 - Slight 2 - Moderate 3 - High 4 – Extreme B – Goggles, Gloves

Health: 2/2 Flammability: 1/1 Reactivity: 0/0 Personal Protection: B

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