



Prairie Mud Service

738-6th St. Estevan, SK Ph: 1-306-634-3411

MSDS

(Material Safety Data Sheet)

CORGARD 65

SECTION I: PRODUCT INFORMATION

Product Identifier → CORGARD 65

Product Use → Packer Fluid Inhibitor

Manufacturer/Distributor's Name & Address →

Prairie Petro-Chem

738 – 6th Street

EMERGENCY #

Estevan, SK

Ph: 306-634-5808

S4A 1A4

Fx: 306-634-6694

Product Identification Number (PIN) →

Class 3, UN-1993, P.G. III

WHMIS Classification Symbols →



WHMIS Classification → B-2, D-1B, D-2A, D-2B, E

SECTION II: HAZARDOUS INGREDIENTS

Component → AMMONIUM BISULPHITE

ACGIH OSHA Other

CAS No.	%	TLV	PEL	Limit	Hazard
10192-30-0	10-30	2	2	None	Corrosive

LD₅₀ (Oral, rat) → N/D

LD₅₀ (Dermal, rabbit) → N/D

LC₅₀ (Inhalation, rat) → N/D

Component → METHANOL

ACGIH OSHA OTHER

CAS NO.	%	TVL	PEL	LIMIT	HAZARD
67-56-1	10-30	200	200	250	Flammable; (skin) (stel, skin) Toxic

LD₅₀ (Oral, rat) → 5628 mg/kg (1)

LD₅₀ (Dermal, rabbit) → 20000 mg/kg (1)

LC₅₀ (Inhalation, rat) → 64000 ppm for 4 hours (1)

Component → OXYALKYLATED FATTY AMINE

ACGIH OSHA Other

CAS No.	wt%	TLV	PEL	Limit	Hazard
61790-85-0	3-7	N/D	N/D	N/D	N/D

*No data available for LD₅₀ and LC₅₀ levels.

Component → ETHYLENE GLYCOL

ACGIH OSHA Other

CAS No.	wt%	TLV	PEL	Limit	Hazard
107-21-1	3-7	None	50ppm	TWA 100 Ceiling 8hr	Toxic

LD₅₀ (Oral, rat) → 6000 – 13000 mg/kg

LD₅₀ (Dermal, rabbit) → 10600 mg/kg

Human, Lethal Dose → 100 ml

LC₅₀ (Rat) → >3.95 mg/l, aerosol, 7 hours

LCLO (human) → 10,000 mg/m³ (irritation)

Component → QUATERNARY AMMONIUM COMPOUND

ACGIH OSHA Other

CAS No.	wt%	TLV	PEL	Limit	Hazard
61789-70-6	1-5	N/D	N/D	N/D	N/D

*No data available for LD₅₀ and LC₅₀ levels.

Component → AMINE DERIVATIVES

ACGIH OSHA Other

CAS No.	wt%	TLV	PEL	Limit	Hazard
61790-69-0	0.1-1.0	N/D	N/D	N/D	N/D

*No data available for LD₅₀ and LC₅₀ levels.

Component → ISOPROPANOL

ACGIH OSHA Other

CAS No.	%	TLV	PEL	Limit	Hazard
67-63-0	0.1-1.0	400TWA	N/D	N/D	Flammable; Toxic

LD₅₀ (Oral, rat) → 5045 mg/kg

LD₅₀ (Dermal, rabbit) → 12,8000 mg/kg

LC₅₀ (Inhalation, rat) → 12,000 ppm for 8 hours

SECTION III: PHYSICAL DATA

Physical State (Gas, Liquid, Solid) → Liquid

Odour and Appearance → Dark Brown Liquid;
Pungent Odour

Odour Threshold → N/D

Vapour Pressure mmHg @20°C → N/D

Vapour Density → >1

Evaporation Rate → N/D (Butyl Acetate=1)

Boiling Point @760mmHg → N/D

Freezing Point °C → -40°C

pH → 6.0 – 8.0

Specific Gravity @20°C → 1.130 – 1.145

Solubility in Water @20°C, wt. % → Complete

SECTION IV: FIRE OR EXPLOSION HAZARD

Flash Point → >29°C – Pensky –Martens Closed Cup

Upper Explosive Limit (% by Vol.) → N/D

Lower Explosive Limit (% by Vol.) → N/D

Auto-Ignition Temperature → N/D

Extinguishing Media → Alcohol or polymer foam for large fires. Carbon dioxide or dry chemical for small fires.

Fire Fighting Procedures → Addition of water to burning fuel will reduce the intensity of the flame.

Hazardous Combustion Products → CO, CO₂

Unusual Fire and Explosion Hazards → Extinguish all nearby sources of ignition. This product may burn with a flame which is invisible in daylight. Mixtures with water and as little as 21% Methanol are flammable.





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SECTION V: REACTIVITY DATA

Stability → Product is Stable.

Conditions to Avoid → Heat, Sparks, Open Flames and all other sources of ignition.

Materials to Avoid → Strong oxidizing agents, aluminum, zinc, any metal that displaces hydrogen, acids, and alkalis.

Conditions of Reactivity → None

Hazardous Decomposition Products → May liberate carbon monoxide, carbon dioxide, formaldehyde and unidentified organic compounds in black smoke.

SECTION VI: TOXICOLOGICAL PROPERTIES

Route of Entry → Skin Contact	<u>YES</u>
Skin Absorption	<u>YES</u>
Eye Contact	<u>YES</u>
Inhalation	<u>YES</u>
Ingestion	<u>YES</u>

Effects of Exposure When →

Inhaled – May cause irritation of eyes, nose, throat and respiratory tract. May cause blindness and CNS depression.

In Contact With Skin – Direct contact with vapour, mist or liquid may cause defatting, drying and cracking of the skin. Prolonged and repeated exposures may cause dermatitis. May be absorbed through the skin, causing depression and blindness.

In Contact With Eyes – Conjunctivitis, irritation and inflammation of mucous membranes may occur.

Ingested – May cause irritation of mucous membranes of mouth and throat. May cause CNS depression and blindness. Severe overexposure may cause metabolic acidosis.

Exposure Limits → See Section II “Hazardous Ingredients” for individual ingredient limits.

Carcinogenicity → The ingredients of this product are not listed as carcinogens by NPT (National Toxicology Program), not regulated as carcinogens by OSHA (Occupational Safety and Health Administration), and have not been evaluated by IARC (International Agency for Research on Cancer) or ACGIH (American Conference of Government Industrial Hygienists).

Reproductive Toxicity → A recent study showed Ethylene Glycol administered by gavage at daily doses of 1.25 g/kg and 1.00 g/kg to pregnant rats, or at 750 mg/kg and 1.00 g/kg to pregnant mice, there was an increase in the number of malformed fetuses at all dose levels. Except at the lowest dose level in mice, there was also evidence of maternal toxicity at all dose levels. The dose levels used in these studies were much higher than potential exposures in the normal use of Ethylene Glycol and exposure by swallowing and/or inhalation is not to be expected in normal use.

Mutagenicity → No information is available and no adverse mutagenic effects are anticipated.

Teratogenicity → No information is available and no adverse teratogenic effects are anticipated.

Synergistic Materials → None known.

SECTION VII: PREVENTIVE MEASURES

Respiratory Protection → In confined areas where product vapour concentration may be elevated, use of a NIOSH approved organic vapour cartridge is recommended. Where the protection factor of the respirator may be exceeded, use of a self-contained breathing apparatus may be necessary.

Protective Gloves → Impervious rubber, viton or nitrile gloves.

Eye Protection → Chemical safety goggles or face shield.

Other Protective Equipment → Impervious apron and boots, eye bath and shower.

Ventilation → LOCAL: Preferable
MECHANICAL (General): Acceptable

Spill and Leak Procedure → Eliminate all sources of ignition. Stop or reduce discharge if safe to do so. Prevent from entering water sources or sewers. Ventilate enclosed spaces.

LARGE SPILLS: Warn public of potential downwind explosion hazard due to flashback of flammable vapours. Contain by diking for release to land, or booming/damming for release to water. Recover product and collect contaminated soil or water for treatment and/or disposal.

SMALL SPILLS: Contain by applying sorbent. Collect waste absorbent and contaminated soil for disposal. For significant releases contact regulatory authorities.

Waste Disposal → Dispose of waste materials in an approved incinerator or waste treatment/disposal facility in accordance with applicable regulations. Do not dispose of wastes in local sewer or with normal refuse.

Handling Procedures & Equipment → Ground and bond equipment to prevent static discharge. Use spark resistant tools. Avoid splash filling.

Storage Requirements → Store in a cool, well-ventilated area away from oxidizers.

Transportation Information →

CANADIAN TDG ACT SHIPPING INFORMATION -
Shipping Name: Flammable Liquid, N.O.S. (Methanol)
Primary Class: 3

Sub Class: none

Product Identification No.: UN1993

Packing Group: III

Col. 6 - Explosive Limit / Limited Quantity Index: 5 kg

Col. 7 - ERAP Index: none

Col. 9. – Passenger Road/Rail Index: 60kg

Emergency Response Guide No.: 128





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SECTION VIII: FIRST AID MEASURES

First Aid Procedures When →

Inhaled – Remove to fresh air. If not breathing, give artificial respiration. Obtain medical attention immediately.

In Contact With Skin - Remove contaminated clothing. Flush skin with running water and wash affected areas with soap and water. Obtain medical advice.

In Contact With Eyes - Flush eyes thoroughly with water for 20 minutes, holding eyelids open. Obtain medical attention immediately.

Ingested - If victim is alert and not convulsing, give ½ to 1 glass of water to dilute material. If spontaneous vomiting occurs have victim lean forward with head down to avoid breathing in of vomitus. Rinse mouth and administer more water. IMMEDIATELY contact local poison control centre. Vomiting may need to be induced but should be directed by a physician or a poison control centre. IMMEDIATELY transfer victim to an emergency centre.

Note to Physician: Methanol can cause optic atrophy and death. If ingestion has occurred less than 2 hours earlier, carry out careful gastric lavage. Take blood for CO₂ combining power and methanol content. Ethanol administration may help metabolize methanol. Give ½ to 1 ml., 50% ethanol per kg of body weight every 2 – 4 hours for 4 days.

SECTION IX: PREPARATION INFORMATION

Prepared By → Product Safety Committee
(WHMIS Division)

Preparation Date → November 6, 2009

The above information is supplied as a customer service and is provided in good faith. Although it has been based on data drawn from sources deemed to be reliable, Prairie Mud Service cannot guarantee its accuracy and assumes no responsibility for conditions resulting from its use.

END OF MSDS

KEY TO ABBREVIATIONS

N/D – No Data Available LD₅₀ – Lethal Dose
N/A – Not Applicable LC₅₀ – Lethal Concentration