

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **CORINOX**
OTHER MEANS OF IDENTIFICATION: None
RECOMMENDED USE: Oilwell drilling fluid additive
RESTRICTIONS ON USE: None known
SUPPLIER IDENTIFIER: **Di-Corp**
8750-53 Ave
Edmonton, AB T6E 5G2
780-440-4923
EMERGENCY PHONE NUMBER: 780-468-4064

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Acute toxicity (oral) – Category 4
Eye irritation – Category 2A
STOT-SE (Target organs: CNS, kidney) – Category 2
STOT-RE (Target organs: Liver) – Category 2

LABEL SYMBOLS:



SIGNAL WORD:

WARNING

CLASSIFICATION INFORMATION:

Harmful if swallowed.
Causes serious eye irritation.
May cause damage to organs (CNS, kidneys).
May cause damage to organs (liver) through prolonged or repeated oral exposure.

OTHER HAZARDS:

None known.

PRECAUTIONARY STATEMENTS:

Do not breathe vapors.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when handling this product.
Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: Call a Poison Center or doctor/physician if you feel unwell. Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF exposed or concerned: Call a POISON CENTER/doctor. Get medical attention if you feel unwell.

Store locked up.

Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION (w/w)
Ethylene glycol	107-21-1	10 – 30%
Sodium sulfite	7757-83-7	5 – 10%

SECTION 4: FIRST AID MEASURES

SKIN CONTACT:	Remove contaminated clothing and wash contaminated skin thoroughly with soap and water. If irritation persists, or develops, obtain medical attention.
EYE CONTACT:	Immediately flush with gently flowing, warm water for at least 15 minutes. Remove contact lenses if present. Hold eyelids open to ensure thorough flushing. If irritation persists, obtain medical attention.
INGESTION:	Do not induce vomiting. If conscious, rinse out mouth and give 240 to 300 mL of water to drink. If spontaneous vomiting occurs, keep head below hips to prevent aspiration, and give more water. Obtain immediate medical attention or contact Poison Control Center. If medical assistance is not immediately available and victim has swallowed a moderate amount of product, give three to four ounces of hard liquor. For children give proportionately less liquor according to weight. Never give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.
INHALATION:	Move to area free from contaminants. Apply oxygen or artificial respiration if required. Obtain immediate medical attention or contact Poison Control Center.
MOST IMPORTANT SYMPTOMS / EFFECTS:	May cause skin and eye irritation. May be harmful if swallowed. Ingestion of large amounts may result in organ damage or even death.
IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT:	If swallowed, contact POISON CENTER immediately. Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use media appropriate for packaging and surrounding materials.
UNSUITABLE EXTINGUISHING MEDIA:	None.
SPECIFIC FIRE HAZARDS:	Noncombustible. May burn under fire conditions if solvent is boiled off.
HAZARDOUS COMBUSTION PRODUCTS:	Not available.
SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS:	Self-contained breathing apparatus required for fire-fighting personnel. Move containers from fire area, or cool with water spray, if possible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use appropriate safety equipment. Eliminate ignition sources. Stop leak if possible to do so without risk.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Small spills; soak up with absorbent material; collect used absorbent material in approved containers for disposal. Large spills; dike to prevent spread; collect diked material with vacuum truck. Collect uncontaminated material for repackaging. Collect contaminated material in approved containers for disposal. Treat remaining material as a small spill. Wash spill area thoroughly with water. Ensure spilled material does not enter storm sewers or public waterways.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact. Launder contaminated clothing before reuse.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in a cool, dry area away from incompatible materials and ignition sources. Keep container tightly closed when not in use. Store unused material in original container. Follow all directions for use given on container label. Empty packages contain residual hazardous material and should be stored and handled as if full.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

COMPONENT

Ethylene glycol
Sodium sulfite

EXPOSURE LIMITS

ACGIH-TLV = 100 mg/m³
WEL = 5 mg/m³

ENGINEERING CONTROLS:

Use only with adequate ventilation. Use process enclosure, local exhaust ventilation or other engineering controls to keep worker exposure below limits.

PERSONAL PROTECTIVE MEASURES

RESPIRATORY PROTECTION:

Use approved respirators with organic vapor cartridges if airborne mist/vapor concentration exceeds limits.

PROTECTIVE GLOVES:

Rubber or viton gauntlets recommended.

EYE PROTECTION:

Wear chemical goggles when handling.

OTHER PROTECTIVE EQUIPMENT (SPECIFY):

Protective clothing as required to prevent contact. Ensure eye-wash station and emergency shower are available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Clear colourless liquid.

ODOUR:

Little odour.

ODOUR THRESHOLD:

Not available.

pH:

7 – 9

MELTING POINT / FREEZING POINT:

<-25°C

BOILING POINT / RANGE:

Not available

FLASH POINT:

Not available

EVAPORATION RATE:

Not available

FLAMMABILITY:

Not combustible

FLAMMABILITY / EXPLOSIVE LIMITS:

Not applicable

VAPOUR PRESSURE:

Not applicable

VAPOUR DENSITY:

Not applicable

RELATIVE DENSITY:

1.20

SOLUBILITY:

Miscible with water.

PARTION COEFFICIENT:

Not available

AUTO-IGNITION TEMPERATURE:

Not applicable

DECOMPOSITION TEMPERATURE:

Not applicable

VISCOSITY:

Not available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:

Not reactive.

CHEMICAL STABILITY:

Stable.

POSSIBILITY OF HAZARDOUS REACTIONS:

None under normal conditions of use.

CONDITIONS TO AVOID:

Not available.

INCOMPATIBLE MATERIALS:

Strong oxidizers, strong acids and water reactive materials.

HAZARDOUS DECOMPOSITION PRODUCTS:

Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY	No product toxicity data available.		
	COMPONENT TOXICITY		
COMPONENT	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
Ethylene glycol	4000 mg/kg (rat)	9530 uL/kg (rabbit)	Not available
Sodium sulfite	1540 mg/kg (rat)	>2000 mg/kg (rabbit)	Not available
SKIN CONTACT:	Prolonged contact or repeated exposure may cause skin irritation. May cause defatting, drying and cracking of the skin. Prolonged and repeated contact may lead to dermatitis. Ethylene glycol has been shown to cause renal toxicity from dermal adsorption when tested in laboratory animals.		
EYE CONTACT:	Liquid, vapour or mist causes irritation, experienced as stinging, excess blinking and tear production, with redness of the conjunctiva. Injury to the cornea is not expected.		
INGESTION:	May cause abdominal discomfort or pain, nausea, vomiting, dizziness, malaise, blurring of vision, irritability, lumbar pain oligurea, uremia and CNS effects including irregular eye movements, convulsions and coma. Cardiac failure and pulmonary oedema may develop. Severe kidney damage follows the swallowing of large amounts of ethylene glycol. May be fatal. Animal toxicity values do not meet criteria, but ethylene glycol is more toxic to humans and there are numerous human case reports of toxicity and death published in the literature.		
INHALATION:	Because of low vapour pressure, significant amounts of airborne vapours are not expected at room temperatures. Mist may cause irritation of the nose and throat with headache. Heated vapours may produce nausea, vomiting, headache, dizziness and irregular eye movements.		
CARCINOGENICITY:	Not listed by NTP, IARC, OSHA or ACGIH.		
TERATOGENICITY:	Ethylene glycol is teratogenic, fetotoxic and embryotoxic in animal studies.		
REPRODUCTIVE TOXICITY:	No information available.		
MUTAGENICITY:	No information available.		
CHRONIC TOXICITY:	No information available.		
TARGET ORGAN EFFECTS:	Ingestion of ethylene glycol may cause liver and/or kidney damage.		

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:	No product information available.
Ethylene glycol	Sodium sulfite
LC50 (fathead minnow) = 100 mg/L/96hr	LC50 (leuciscus idus) = 316 mg/L/96hr
LC50 (daphnia magna) >100 mg/L/48hr	EC50 (pseudomonas putida) = 410 mg/L/17hr
EC50 (algae(selanastrum capricornutum)) >100 mg/L/96hr	EC50 ((daphnia magna) = 89 mg/L/48hr
EC50 (bacteria (ceriodaphnia)) > 100 mg/L/16hr	EC50 (desmodesmus subspicatus) = 43.8 mg/L/72hr
PERSISTENCE AND DEGRADABILITY:	Not available
BIOACCUMULATIVE POTENTIAL:	Not available
MOBILITY IN SOIL:	Not available
OTHER ADVERSE EFFECTS:	None know.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Empty containers, which have not been cleaned and purged, contain residual hazardous material and must be recycled, or disposed of, in accordance with local regulations.

SECTION 14: TRANSPORTATION INFORMATION

TDG	Not regulated
DOT	Not available
IATA	Not regulated
IMDG	Not regulated
UN NUMBER:	Not applicable
PROPER SHIPPING NAME:	Not applicable
CLASS:	Not applicable
PACKING GROUP:	Not applicable
IMDG HAZARDS:	Not available
BULK TRANSPORT:	Not regulated
SPECIAL PRECAUTIONS:	None

SECTION 15: REGULATORY INFORMATION

DSL:	Listed
WHMIS CLASS:	D1B, D2A, D2B
TSCA:	Listed

SECTION 16: OTHER INFORMATION

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REPLACES:	May 9, 2018

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