

Print Date: August 1, 2025

## **Section 1: Product & Company Information**

Product Identifier: ExoEndosol 101

Other Means of Identification

Product Number: 151007

**Recommended Use and Restrictions on Use** 

**Recommended Use:** Geo-Thermal Heat Transfer Fluid **Restrictions on use:** Not for human consumption.

Manufacturer / Importer / Supplier / Distributor Information

Company Name: CORECHEM Inc.
Address: 4320 Greenway Drive
Knoxville, TN 37918 USA

Information Telephone Number: 1-865-524-4239

**Fax Number:** 1-865-524-3375

**Website:** www.corecheminc.com **Contact Person:** Regulatory Manager

E-mail: regulatory@corecheminc.com

Emergency Phone Number: Chemtrec® 1-800-424-9300 / Outside USA 1-703-527-3887 (monitored 24 hours/day)

## **Section 2: Hazards Identification**

#### GHS Hazard Classification(s)

In accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

### Physical Hazard(s)

Flammable, Liquids - 2

### Health Hazard(s)

Corrosion/Irritation, Skin - 2 (Corrosion) Damage/Irritation, Eye - 2A

## Environmental Hazard(s)

Not classified.

## Label Elements Signal Word DANGER

## Hazard Symbol(s)





### Hazard Statement(s)

H225: Highly flammable liquid and vapor. H317: May cause an allergic skin reaction.

H319: Causes serious eye Irritation.

## **Precautionary Statements**

### Prevention

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P264: Wash face, hands and any exposed skin thoroughly after handling.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

#### Response



Print Date: August 1, 2025

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321: Specific treatment (see supplemental first aid instructions on this label).

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

P363: Wash contaminated clothing before reuse.

P370 + P378: In case of fire: Use suitable extinguishing media for extinction.

#### Storage

P403 + P235: Store in a well-ventilated place. Keep cool.

#### Disposal

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

#### Hazard(s) not otherwise classified (HNOC)

None known.

## Section 3: Composition/Information on Ingredients

#### Mixtures

Chemical Identity	Common Name/Synonym(s)	CAS #	Weight %	Impurity or Stabilizing Additive
Ethyl Alcohol	Ethanol	64-17-5	93 – 94%	No
Pine Oil		8002-09-3	0.35%	No

## **Section 4: First-Aid Measures**

#### General Information

Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance. Take proper precautions to ensure your own health before attempting rescue and providing first aid.

#### Inhalation

Move to fresh air. Get medical attention if symptoms occur.

### Skin Contact

Wash skin thoroughly with soap and water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.

### **Eye Contact**

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.

#### Ingestion

Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

## Most important symptoms/effects, acute and delayed

#### Symptoms

Symptoms will vary with alcohol level of the blood. Mild alcohol intoxication occurs at blood levels between 0.05- 0.15%. Approximately 25% of individuals show signs of intoxication at these levels. Above 0.15% the person is under the influence of ethanol; 50-95% of individuals are clinically intoxicated at these levels. Severe poisoning occurs when the blood is ethanol level is 0.3- 0.5%. Above 0.5% the individual will be comatose, and death can occur. The unabsorbed ethanol should be removed by gastric lavage after intubating the patient to prevent aspiration. Avoid the use of depressant drugs and administering excessive amounts of fluids.

## Indication of immediate medical attention and special treatment needed

#### **Treatment**

Symptoms may be delayed. Treat symptomatically.

## **Section 5: Fire-Fighting Measures**

#### General Fire Hazards

In case of fire and/or explosion do not breathe fumes. Vapors may cause a flash fire or ignite explosively.

## Suitable (and Unsuitable) Extinguishing Media

## Suitable Extinguishing Media

Small Fire: Use Dry chemicals, CO2, water spray or alcohol resistant foam. Large fire: Use water spray, water fog or alcohol resistant foam. Cool all affected containers with flooding quantities of water.

#### Unsuitable Extinguishing Media

Avoid water in straight hose stream; will scatter and spread fire.



Print Date: August 1, 2025

#### **Specific Hazards Arising from the Chemical**

Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. May produce a floating fire hazard. Static ignition hazard can result from handling and use. Vapors may travel to source of ignition and flash back. Vapors may settle in low or confined spaces.

#### **Special Protective Equipment and Precautions for Firefighters**

#### **Special Fire-Fighting Equipment Procedures**

Alcohols burn with a pale blue flame which may be extremely hard to see under normal lighting conditions. Personnel may only be able to feel the heat of the fire without seeing flames. Extreme caution must be exercised in fighting alcohol fires. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. Use water spray to keep fire-exposed containers cool. Move containers from fire area if you can do so without risk.

#### **Special Protective Equipment for Fire-Fighters**

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

## **Section 6: Accidental Release Measures**

## Personal Precautions, Protective Equipment and Emergency Procedures

Do not get in skin or eyes. Do not inhale vapor or mist. Keep away from sources of ignition. No smoking, take measures to prevent the buildup of electrostatic charge. Open and handle container with care. Metal containers involved in the transfer of this material should be grounded and bonded.

#### Methods and Materials for Containment and Clean-Up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

**Small Spills**: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

#### **Notification Procedures**

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

## **Environmental Precautions**

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## **Section 7: Handling and Storage**

## **Precautions for Safe Handling**

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Use personal protective equipment as required. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash hands thoroughly after handling. See Section 8 of the SDS for Personal Protective Equipment.

## Conditions for Safe Storage, including any Incompatibilities

Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

## **Section 8: Exposure Controls/Personal Protection**

#### **Control Parameters**

## **Occupational Exposure Limits**

Chemical Identity	CAS#	Туре	Value	Source
Ethyl Alcohol	64-17-5	STEL	1000 ppm	US. ACGIH Threshold Limit Values
Ethyl Alcohol	64-17-5	PEL	1000 ppm	US OSHA Table Z-1
Ethyl Alcohol	64-17-5	TWA	1000 ppm	US. NIOSH: Pocket Guide to Chemical
				Hazards
Ethyl Alcohol	64-17-5	REL	1000 ppm	US. NIOSH: Pocket Guide to Chemical
				Hazards

## **Biological Limit Values**

None of the components have assigned biological limit values.

## **Appropriate Engineering Controls**

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.



Print Date: August 1, 2025

# Individual protection measures, such as personal protective equipment (PPE)

#### **General Information**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

#### **Eye/Face Protection**

Wear safety glasses with side shields (or goggles). Wear face shield if there is risk of splashes.

#### Skin Protection

#### **Hand Protection**

Wear appropriate chemical resistant gloves.

## Other

Wear appropriate chemical resistant clothing.

#### **Respiratory Protection**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

#### **Hygiene Measures**

Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

## **Section 9: Physical and Chemical Properties**

Appearance:

Physical State: Liquid

Color: Colorless liquid / invisible vapor.

Odor: Sweet, Alcohol-like
Odor Threshold: No data available.
pH: No data available.
Melting Point/Freezing Point: -114 °C (-173 °F)
Initial Boiling Point and Boiling
78.3 °C (172.9 °F)

Range:

Flash Point: 17°C (62°F) - closed cup Evaporation Rate (butyl acetate=1): No data available.

Flammability (solid, gas): OSHA/NFPA Class IB Flammable Liquid

## **Upper/Lower Limit on Flammability or Explosive**

Limits

Flammability Limit – Upper: No data available.
Flammability Limit – Lower: No data available.
Explosive Limit – Upper: 3.3% v/v for 100% ethanol
Explosive Limit – Lower: 19% v/v for 100% ethanol

**Vapor Pressure:** 59.5 hPa (44.6 mmHg) at 20 °C (68 °F) - For 100% Ethyl Alcohol

Vapor Density (air =1): 1.6

**Relative Density** (water=1): 0.808 g/mL at 25 °C (77 °F)

Solubility(ies):

Solubility in water: Completely
Solubility (other): No data available.

Partition coefficient (n- No data available.

octanol/water):

**Auto-Ignition Temperature:** 363°C (685.4°F) - (Ethyl Alcohol)

**Decomposition Temperature:** No data available. **Viscosity:** No data available.

Other Information:

Molecular Weight: Ethanol: 46.07 Water: 18.02 Formula: Ethanol: C2H6O Water: H2O

## **Section 10: Stability and Reactivity**

#### Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

## **Chemical Stability**

Material is stable under normal conditions



Print Date: August 1, 2025

#### **Possibility of Hazardous Reactions**

Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Heat, flames and sparks. Extreme temperatures and direct sunlight. Vapors may form explosive mixture with air.

#### **Incompatible Materials**

Strong oxidizing agents. Alkali metals. Inorganic salts. Organic - organometallic. Inorganic hydrides.

### **Hazardous Decomposition Products**

Carbon oxides are expected to be, under fire conditions, the primary hazardous decomposition products.

## **Section 11: Toxicological Information**

#### Information on routes of exposure

**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and Diarrhea. May cause systemic toxicity with acidosis. Advanced stages can lead to respiratory failure, kidney failure, coma and death.

**Inhalation:** Inhalation of high concentrations may cause central nervous system effects characterized by nausea headache, dizziness, unconsciousness, and coma. Causes respiratory tract irritation. May cause narcotic effects in high concentrations. Vapors may cause dizziness or suffocation.

Skin Contact: Mildly irritating to the skin. May cause dermatitis by defatting the skin from prolonged or repeated contact.

**Eye Contact:** Causes serious eye irritation. Eye exposure to Ethanol generally causes transient pain, irritation, and reflex lid closure. A foreign-body sensation may persist for one to two days. Vapors produce transient stinging and tearing, but no apparent adverse effects. Transiently

impaired perception of color may occur with acute ingestion or chronic alcoholism.

#### **Information on Toxicological Effects**

## Acute Toxicity (List all possible routes of exposure)

Oral

Ethanol: LC50 (Rat): 10470 mg/Kg Ethanol: LDLo (Human): 1400 mg/Kg

#### Dermal

No data available.

### Inhalation

Ethanol: LC50 (Rat, 10 h): 20,000 mg/l Ethanol: LC50 (Rat 4 h): 117-125 mg/l)

## **Repeated Dose Toxicity**

No data available.

#### Skin Corrosion/Irritation

Standard Draize skin test (rabbit) - Dose: 20 mg/24 hrs. Reaction: Moderate Repeated exposure may cause skin dryness or cracking.

### Serious Eye Damage/Eye Irritation

Standard Draize eye test (rabbit) - Dose: 500 mg Reaction: Severe Dose: 500 mg/24 hrs. Reaction: Mild

### Respiratory/Skin Sensitization

Not a skin sensitizer.

### Carcinogenicity

## IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Not listed.

## US. National Toxicology Program (NTP) Report on Carcinogens

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## **Germ Cell Mutagenicity**

In Vitro

No mutagenic components identified.

In Vivo

No mutagenic components identified.

#### **Reproductive Toxicity**

May damage fertility or the unborn child. Reproductive toxicity - Human - female - Oral. Effects on Newborns - measured low apgar scores and showed signs of alcohol dependence.

## Specific Target Organ Toxicity - Single Exposure

Central nervous system. Eyes. Respiratory tract irritation

## Specific Target Organ Toxicity – Repeated Exposure



Print Date: August 1, 2025

None known.

## **Aspiration Hazard**

Not classified.

#### **Other Effects**

None known.

## **Section 12: Ecological Information**

#### **Ecotoxicity**

#### **Acute Hazards to the Aquatic Environment**

Fish

No data available.

#### **Aquatic Invertebrates**

No data available.

#### **Chronic Hazards to the Aquatic Environment**

#### Fish

Ethanol: LC 50 (Carp (Leuciscus idus melanotus), 48 h): 8,140 mg/l Mortality

Ethanol: LC 50 (Fathead minnow (Pimephales promelas), 96 h): 13,480 mg/l Mortality

Ethanol: LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 12,000 - 16,000 mg/l Mortality

Ethanol: LC 50 (Freshwater Fish 24 h): 11200 mg/l

Ethanol: NOEC (Freshwater fish): 250 mg/l

#### **Aquatic Invertebrates**

Ethanol: LC 50 (Water flea (Daphnia magna), 48 h): 7,560 - 12,600 mg/l Mortality

Ethanol: LC 50 (Brine shrimp (Artemia franchiscana), 48 h): 25.5 mg/l Mortality

Ethanol: EC 50 (Water flea (Daphnia obtusa), 48 h): 10,100 - 11,200 mg/l Intoxication

Ethanol: EC50 (Freshwater invertebrate 48h) 5012 mgl

## **Toxicity to Aquatic Plants**

Ethanol: EC10 (Freshwater algae 72 h): 11.5 mg/l

Ethanol: EC50 (Freshwater algae 72 h): 275 mg/l

Ethanol: EC50 (Maine water algae): 1900 mg/l

Ethanol: NOEC (Marine water algae): 1580 mg/l

## Persistence and Degradability

## Biodegradation

No data available.

## **BOD/COD Ratio**

No data available.

## **Bioaccumulative Potential**

## **Bioconcentration Factor (BCF)**

No data available on bioaccumulation.

#### Partition Coefficient n-octanol / water (log Kow)

Ethanol: Log Kow: -0.31

## **Mobility in Soil**

The product is water soluble and may spread in water systems.

## Results of PBT and vPvB Assessment

No data available.

#### **Other Adverse Effects**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

## **Section 13: Disposal Considerations**

## **Disposal Instructions**

Discharge, treatment, or disposal may be subject to national, state, or local laws. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional state disposal service to dispose of this material.

## **Contaminated Packaging**

Since emptied containers retain product residue, follow label warnings even after container is emptied.



Print Date: August 1, 2025

## **Section 14: Transportation Information**

#### **US Department of Transportation (DOT)**

UN Number: UN1170

UN Proper Shipping Name: Ethanol solutions

Technical Name: -Hazard Class: 3

Subsidiary Hazard Risk: -

Packing Group: II

DOT Label/Placard Exemptions: Not determined

Special Provisions: 172, IB2, T7, TP1, TP8, TP28

Packaging Exceptions: 49CFR 173.150, 4b Packaging Non-Bulk: 49CFR 173.202

Packaging Bulk: 49CFR 173.242

Reportable Quantity (RQ): No

Marine Pollutant: No

Poison Inhalation Hazard: No

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that

persons transporting the product know what to do in the event of an accident or spillage.

Emergency Response Guidebook (ERG) #: 127

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

## Section 15: Regulatory Information

### **US Federal Regulations**

## Toxic Substance Control Act (TSCA), Chemical Substance Inventory, Section 8(b)

This product or ingredients are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

## Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substance List (40 CFR 302.4)

No chemicals in this material are subject to the reporting requirements of CERCLA.

### Clean Air Act (CAA), Section 112(r)

No chemicals in this material are subject to the reporting requirements of CAA.

## Emergency Planning and Community Right-To-Know Act (EPCRA)

## **EPCRA 302 Extremely Hazardous Substance**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## **EPCRA 304 Emergency Response Notification**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 304.

## EPCRA 311/312 Emergency and Hazardous Materials Reporting

Fire Hazard: Yes

Sudden Release of Pressure: No

Reactive: No

Acute Health Hazard: Yes

Chronic Health Hazard: Yes

## EPCRA 313 Toxic Chemical Release Inventory (TRI) Reporting

This material does not contain any chemical(s) with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## **US State Regulations**

## California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Important Note: Due to the changing nature of regulatory requirements, the information in this document should NOT be considered all-inclusive or authoritative. Users should make their own investigations to determine the suitability of the information for their particular purposes. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.

## **Section 16: Other Information**

#### Hazardous Materials Identification System (HMIS®) Classification

Health Hazard: 2

Chronic Health Hazard: \*

Flammability: 3

Physical Hazard: 0

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)



Print Date: August 1, 2025

## National Fire Protection Association (NFPA 704) Rating

Health Hazard: 2 Fire Hazard: 3 Reactivity Hazard: 0

Special: N/A

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

Prepared By: Regulatory Manager

Version #: 001

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Last Revised By: Regulatory Assistant C

Last Revision Date: 7/3/2019 Current Revision: 02

Sections Revised: Changes were made to sections 2-3, 6, 8, 10, 12

### **Key to Abbreviations and Acronyms**

LD50 - Lethal Dose, 50%

N/A - Not Applicable

N/D - Not Determined

PEL - Permissible Exposure Limit REL - Recommended Exposure Limit

STEL – Short-term Exposure Limit

TWA - Time weighted average

mg - milligram

ml - milliliter

ATE - Acute Toxicity Estimate ACGIH - American Conference of Industrial Hygienists BCF - Bioconcentration Factor AIHA - American Industrial Hygiene Association EC50 - Effective concentration, 50% BEI - Biological Exposure Indices

CAS - Chemical Abstracts Service IDHL - Immediately Dangerous to Life and Health Kg - Kilogram DOT - US Department of Transportation I - Liter EPA – US Environmental Protection Agency

lb - Pound GHS - Globally Harmonized System of Classification and Labelling of Chemicals LC50 - Lethal Concentration, 50%

IARC - International Agency for Research on Cancer IATA - International Air Transport Association

IBC - Intermediate Bulk Container

IMDG - International Maritime Dangerous Goods

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA – US Occupational Health and Safety Administration SARA - US EPA Superfund Amendments and Reauthorization Act

TSCA - US EPA Toxic Substances Control Act

**UN - United Nations** 

# References

HSDB® - Hazardous Substances Data Bank

#### Disclaimer

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