ESSENTIAL CHEMISTRY. INNOVATIVE SOLUTIONS.

SAFETY DATA SHEET

Print Date: August 4, 2025

Section 1: Product & Company Information

Product Identifier: **GlycoChill+™ P-270HD Heat Transfer Fluid**

Other Means of Identification
Product Number: 195006

Recommended Use and Restrictions on Use
Recommended Use: Heat Transfer Fluid
Restrictions on Use: No data available.

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)
Not classified as hazardous according to OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

Section 3: Composition/Information on Ingredients

Mixture

Chemical Identity [2]	Common Name/Synonym(s)	CAS # [3]	Weight %	Impurity or Stabilizing Additive
Propylene Glycol	Propane-1,2-diol	57-55-6	68 – 72%	No
Dipotassium Monohydrogen Phosphate	Dipotassium hydrogenorthophosphate	7758-11-4	< 3%	No

1. Information regarding the composition and the percent ranges of the mixtures ingredients are not presented as it Confidential Business Information (CBI). Where a medical emergency exists (as determined by medical professional), timely disclosure of CBI is assured. The information omitted pertains to only the names of the substances and the concentration in the mixture (product) and can only be requested by a doctor/physician or Local/State/Provincial or Federal Authority.
2. Non-hazardous ingredients are not presented as to protect the proprietary formula of the product.
3. "—"Indicates ingredient is a mixture and contains multiple ingredients or may have no identifying CAS number.

Section 4: First-Aid Measures

General Information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash contaminated clothing before reuse.

Inhalation
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin Contact
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion
Call a physician or poison control center immediately. Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed
Symptoms
Mild eye, skin, and/or respiratory tract irritation

Indication of immediate medical attention and special treatment needed
Hazards
No data available.
Treatment
Symptomatic and supportive therapy as required.

Section 5: Fire-Fighting Measures

General Fire Hazards

No data available.

Suitable (and Unsuitable) Extinguishing Media

Suitable Extinguishing Media

Water spray, fire extinguishing powder, carbon dioxide (CO2)

Unsuitable Extinguishing Media

Jet water spray may cause frothing and splattering of burning material.

Specific Hazards Arising from the Chemical

Combustible. Vapors may form explosive mixtures with air.

Hazardous combustion products: Nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), irritant vapors / gases

Special Protective Equipment and Precautions for Firefighters

Special Fire-Fighting Equipment Procedures

Chemical protection suit and wear self-contained breathing apparatus.

Special Protective Equipment for Fire-Fighters

Keep containers cool with water spray. In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Ventilate affected area.
Eliminate all ignition sources if safe to do so.
Do not breathe vapor/spray.
Avoid contact with skin and eyes.
Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

Methods and Materials for Containment and Clean-Up

Air release: Vapors may be suppressed by the use of water fog. Contain all liquid for treatment and/or disposal as a potential hazardous waste.
Water release: This material is miscible in water. Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so.
Land release: Create dike or trench to contain spilled material. Absorb spilled product with inert material such as dry sand, clay, vermiculite, or other commercial absorbent. Place in a sealable, properly labeled container. Store in safe location until disposal. Wash area with soap and water.

Notification Procedures

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental Precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

Section 7: Handling and Storage

Precautions for Safe Handling

Use local and general ventilation. Keep away from sources of ignition - No smoking. Vapors may form explosive mixtures with air. Protect against external exposure, such as heat, humidity, direct light irradiation.

Conditions for Safe Storage, including any Incompatibilities

Keep container tightly closed. Store in a cool, dry, well-ventilated place. Keep away from oxidizers, heat, reducing agents, acids, humidity. Ensure that all local regulations regarding handling and storage facilities are followed.

Section 8: Exposure Controls/Personal Protection

Control Parameters

Occupational Exposure Limits

The product does not contain any relevant quantities of hazardous materials with critical values that have to be monitored in the workplace.

Biological Limit Values

The product does not contain any relevant quantities of hazardous materials with assigned biological limit values.

Appropriate Engineering Controls

No data available.

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. Eye wash facilities and emergency shower must be available when handling this product.

Eye/Face Protection

Wear safety glasses with side shields.

Skin Protection

Hand Protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these 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. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact safety professional or manufacturer for specific information.

Hygiene Measures

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated footwear that cannot be cleaned. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Avoid contact with eyes, skin, and clothing.

Section 9: Physical and Chemical Properties

Appearance:	
Physical State:	Liquid
Color:	Fluorescent Yellow/Green
Odor:	Slight
Odor Threshold:	No data available.
pH:	9.5 – 11.5
Melting Point/Freezing Point:	< -51 °C
Initial Boiling Point and Boiling Range:	154 °C
Flash Point:	103 °C (217 °F) - closed cup (as Propylene Glycol)
Evaporation Rate (butyl acetate=1)**:**	No data available.
Flammability (solid, gas):	No data available.
Upper/Lower Limit on Flammability or Explosive Limits	
Flammability Limit – Upper:	2.6 %(V) (as Propylene Glycol)
Flammability Limit – Lower:	12.5 %(V) (as Propylene Glycol)
Explosive Limit – Upper:	12.5% vol
Explosive Limit – Lower:	2.6% vol
Vapor Pressure:	0.11 hPa (0.08 mmHg) at 20 °C (68 °F) (as Propylene Glycol)
Vapor Density (air =1)**:**	2.63 (as Propylene Glycol)
Relative Density (water=1)**:**	1.063 g/cm3 at 25 °C (77 °F)
Solubility(ies):	
Solubility in water:	Completely soluble in water.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-Ignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available.

Other Information:

Molecular Weight:	Mixture
Formula:	Mixture

Section 10: Stability and Reactivity

Reactivity

This material is not reactive under normal ambient conditions.

Chemical Stability

The material is stable under normal storage and handling conditions of temperature and pressure. Dangerous/dangerous reactions with: Oxidizers

Possibility of Hazardous Reactions

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture.

Conditions to Avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. UV-radiation/sunlight. Humidity.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide (CO). Aldehyde. Acetic acid.

Section 11: Toxicological Information

Information on routes of exposure

Ingestion: This material is not expected to be toxic through ingestion, but may cause mild gastrointestinal effects including nausea, vomiting, and diarrhea.

Inhalation: This material may cause mild respiratory irritation, but is not expected to cause serious/permanent damage.

Skin Contact: This material may cause mild irritation, but is not expected to cause serious/permanent damage to the skin

Eye Contact: This material may cause irritation, but is not expected to cause serious/permanent eye damage.

Information on Toxicological Effects

Acute Toxicity (List all possible routes of exposure)

Oral

Propylene Glycol: LD50 (Rat): 22,000 mg/kg

Dipotassium Monohydrogen Phosphate: LD50 (Rat – Female): > 2,000 mg/kg

Dermal

Propylene Glycol: LD50 (Rabbit): 2,000 mg/kg

Dipotassium Monohydrogen Phosphate: LD50 (Rabbit): > 2,000 mg/kg

Inhalation

No data available.

Repeated Dose Toxicity

No data available.

Skin Corrosion/Irritation

Not classified as a corrosive/irritant to skin.

Serious Eye Damage/Eye Irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory/Skin Sensitization

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Carcinogenicity

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific Target Organ Toxicity – Single Exposure

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific Target Organ Toxicity – Repeated Exposure

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Aspiration Hazard

Not classified.

Other Effects

No data available.

Section 12: Ecological Information

Ecotoxicity

Acute Hazards to the Aquatic Environment

Fish

Propylene Glycol: NOEC (Fathead Minnow (Pimephales promelas), 96 h): 52,930 mg/l Mortality

Aquatic Invertebrates

Propylene Glycol: NOEC (Water Flea (Daphnia magna), 48 h): 13,020 mg/l Mortality

Propylene Glycol: EC50 (Water Flea (Daphnia magna), 48 h): 10,000 mg/l

Toxicity to Aquatic Plants
No data available.

Chronic Hazards to the Aquatic Environment

Fish
No data available.

Aquatic Invertebrates
No data available.

Toxicity to Aquatic Plants
No data available.

Persistence and Degradability

Biodegradation
Expected to be readily biodegradable.

BOD/COD Ratio
No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)
No data available.

Partition Coefficient n-octanol / water (log Kow)
Log Kow: -1.07

Mobility in Soil
No data available.

Other Adverse Effects
No data available.

Section 13: Disposal Considerations

Disposal Instructions
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated Packaging
Handle contaminated packages in the same way as the substance itself. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks, and flames. Do not cut, puncture, or weld on or near this container. Follow label warnings until container is thoroughly cleaned or destroyed.

Section 14: Transportation Information

US Department of Transportation (DOT)
This material is not regulated as a hazardous material for transport by the U.S. Department of Transportation in accordance with 49 CFR 172.101.

Section 15: Regulatory Information

US Federal Regulations

Toxic Substance Control Act (TSCA), Chemical Substance Inventory, Section 8(b)
This product or ingredient(s) 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 chemical(s) in this material are subject to the reporting requirements of CERCLA.

Clean Air Act (CAA), Section 112(r)
No chemical(s) 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 chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 302.

EPCRA 304 Emergency Response Notification
No chemical(s) 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:	No
Sudden Release of Pressure:	No
Reactive:	No
Acute (Immediate) Health Hazard:	No
Chronic (Delayed) Health Hazard:	No

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 does not contain any chemicals known to State of California to cause cancer, birth defects, or any 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: 0
Chronic Health Hazard: /
Flammability: 1
Physical Hazard: 0
(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

National Fire Protection Association (NFPA 704) Rating

Health Hazard: 0
Fire Hazard: 1
Reactivity Hazard: 0
Special: N/A
(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

Prepared By: Regulatory Manager
Version #: 001
Issue Date: August 5, 2015
Last Revised By: Regulatory Assistant C
Last Revision Date: 8/24/2023
Current Revision: 01
Sections Revised: 5, 7, 9

Key to Abbreviations and Acronyms

ATE - Acute Toxicity Estimate
BCF - Bioconcentration Factor
EC50 - Effective concentration, 50%
IDHL – Immediately Dangerous to Life and Health
Kg – Kilogram
l – Liter
lb – Pound
LC50 - Lethal Concentration, 50%
LD50 - Lethal Dose, 50%
mg - milligram
ml – milliliter
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
ACGIH - American Conference of Industrial Hygienists
AIHA – American Industrial Hygiene Association
BEI - Biological Exposure Indices
CAS – Chemical Abstracts Service
DOT – US Department of Transportation
EPA – US Environmental Protection Agency
GHS - Globally Harmonized System of Classification and Labelling of Chemicals
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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