SDS DATE: 04/15/2021
LAST REVISION: 10/13/2017

SAFETY DATA SHEET

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System.
THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)
IMPORTANT: Read this SDS before handling & disposing of this product.
Pass this information on to employees, customers, & users of this product.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTITY: PROTHERM 720 50:50
PRODUCT USES: Heat transfer fluid
RESTRICTIONS: Industrial use only
COMPANY IDENTITY: Cascade Columbia Distribution Company
COMPANY ADDRESS: 6900 Fox Avenue S.
COMPANY CITY: Seattle, WA 98108
COMPANY PHONE: 1-206-763-2351
EMERGENCY PHONES: CHEMTREC: 1-800-424-9300 (USA)
CANUTEC: 1-613-996-6666 (CANADA)

SECTION 2. HAZARDS IDENTIFICATION

2.1 LABEL ELEMENTS:
This product does not meet the Global Harmonizing System criteria for classification.
GHS PICTOGRAMS: Not Applicable
GHS SIGNAL WORD: Not Applicable
GHS HAZARD CATEGORY: Not Applicable
GHS HAZARD STATEMENTS: Not Applicable
GHS PRECAUTIONARY STATEMENTS: Not Applicable

2.2 LABEL WORDING RECOMMENDED BUT NOT REQUIRED:
Observe good industrial hygiene practices. Isolate from extreme heat & flame.
Wash hands after handling. Store away from incompatible materials.
Dispose of waste & residue, following local, regional & national requirements.

2.3 HAZARDS NOT OTHERWISE CLASSIFIED:
None

SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCE OR MIXTURE: SUBSTANCE

CHEMICAL NAME	SYNONYM	CAS#	EINECS#	WT %
Propylene Glycol	Propane-1,2-diol; methylethylene glycol; α-propylene glycol	57-55-6	200-338-0	45-50
Dipotassium Phosphate	K2HPO4; dipotassium hydrogen orthophosphate; potassium phosphate dibasic	7758-11-4	Not Available	0.5-3
Water	H20	7732-18-5	231-791-2	47-50

The specific chemical component identities and/or the exact component percentages of this material may be withheld as trade secrets. This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1).

TRACE COMPONENTS: Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, reproductive toxins, respiratory tract mutagens, and sensitizers). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Materials Identification System Standard (CPR 4).

SECTION 4. FIRST AID MEASURES

4.1 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE & CHRONIC:
Mild irritation of skin and eyes may occur. See Section 11 for symptoms/effects, acute & chronic.

4.2 GENERAL ADVICE:
First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists, refer to Section 8 for specific personal protective equipment.

4.3 EYE CONTACT:
For eyes, flush with plenty of water for 15 minutes. If symptoms persist, get medical attention.

4.4 SKIN CONTACT:
In case of contact with skin immediately remove contaminated clothing. Wash with soap & water.

4.5 INHALATION:
Remove to fresh air and make comfortable.

4.6 SWALLOWING:
Rinse mouth. Do NOT give liquids to an unconscious or convulsing person. Do NOT induce vomiting. Get medical attention immediately.

4.7 NOTES TO PHYSICIAN:
There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (such as: Gastric lavage after endotracheal intubation).

SECTION 5. FIRE FIGHTING MEASURES

5.1 FIRE & EXPLOSION PREVENTIVE MEASURES
No open flames.

5.2 EXTINGUISHING MEDIA
Use dry powder, alcohol-resistant foam, water spray, carbon dioxide. No solid water stream.

5.3 SPECIAL FIRE FIGHTING PROCEDURES
Cool closed containers. Use fog nozzles if water is used. Do not enter confined fire-space without full chemical-resistant suit and self-contained breathing apparatus.

5.4 UNUSUAL EXPLOSION AND FIRE PROCEDURES
SLIGHTLY COMBUSTIBLE!
Isolate from oxidizers, heat, & open flame.

Closed containers may explode if exposed to extreme heat.
Heat from fire may generate flammable vapor. Vapor is heavier than air and may travel long distances along the ground before igniting and flashing back to vapor source. Notify authorities immediately if liquid enters sewer/public waters.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 SPILL AND LEAK RESPONSE AND ENVIRONMENTAL PRECAUTIONS:
Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel. Extinguish or turn off all ignition sources. Ventilate the involved space.

6.2 PERSONAL PROTECTIVE EQUIPMENT
Gloves are recommended when handling this product. See Section 8.

6.3 ENVIRONMENTAL PRECAUTIONS:
Stop spill at source. Construct temporary dikes of dirt, sand, or any appropriate readily available material to prevent spreading of the material. Close or cap valves and/or block or plug hole in leaking container and transfer to another container. Keep from entering storm sewers and ditches which lead to waterways, and if necessary, call the local fire or police department for immediate emergency assistance.

6.4 CONTAINMENT AND CLEAN-UP MEASURES:
Absorb spilled liquid with liquid-binding material such as sand, diatomite, acid binders, universal binders, sawdust. Place all spill residue in suitable containers.
Ensure adequate ventilation. Dispose of at an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal (see Section 13 - Disposal Considerations).

SECTION 7. HANDLING AND STORAGE

7.1 HANDLING
Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Avoid contact with the eyes and skin. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work shift. Wear gloves when handling.

7.2 STORAGE
Dry, indoor storage is recommended. Do not store above 49 C/120 F. Avoid moisture.
Keep container tightly closed & upright when not in use to prevent leakage.
Keep away from food stuffs, beverages and feed. Do not store with oxidizing and self-igniting materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 EXPOSURE LIMITS:
No occupational exposure limits have been established for the substances in this product. This does not mean that this substance is not harmful. Safe work practices should always be followed.

8.2 APPROPRIATE ENGINEERING CONTROLS:
RESPIRATORY EXPOSURE CONTROLS
A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be follower whenever workplace conditions warrant a respirator's use.

VENTILATION

LOCAL EXHAUST:	Not Necessary	MECHANICAL (GENERAL):	Acceptable
SPECIAL:	None	OTHER:	None

Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

8.3 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION:
Use chemical safety goggles.
HAND PROTECTION:
Wear protective gloves.
BODY PROTECTION:
Wear protective clothing.

8.4 WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers.
Wash at end of each work shift & before eating, smoking or using the toilet.
Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles.
Launder or discard contaminated clothing

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	Liquid, Water-White
ODOR:	Mild
ODOR THRESHOLD:	Not Available
pH (Neutrality):	10.0
MELTING POINT/FREEZING POINT:	Not Available
BOILING POINT:	Not Available
FLASH POINT (TEST METHOD):	Not Available
EVAPORATION RATE (n-Butyl Acetate=1):	Not Applicable
FLAMMABILITY CLASSIFICATION:	Not Available
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	Not Available
UPPER FLAMMABLE LIMIT IN AIR (% by vol):	Not Available
VAPOR PRESSURE (mm of Hg)@20 °C:	Not Available
VAPOR DENSITY (air=1):	Not Available
DENSITY:	1.06, estimated
SPECIFIC GRAVITY (Water=1, 49°F):	1.06, estimated*
POUNDS/GALLON:	8.84, Calculated
WATER SOLUBILITY:	Miscible
PARTITION COEFFICIENT (n-Octane/Water):	Not Available
AUTO IGNITION TEMPERATURE:	Not Available
DECOMPOSITION TEMPERATURE:	Not Available
TOTAL VOC'S (TVOC)*:	0.0 Vol% /0.0 g/L / 0.000 Lbs/Gal
NONEXEMPT VOC'S (CVOC)*:	0.0 Vol% /0.0 g/L / 0.000 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS):	0.0 Wt% /0.0 g/L / 0.000 Lbs/Gal
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	0.0
VISCOSITY @ 20 C (ASTM D445):	Not Available

SECTION 10. STABILITY & REACTIVITY

10.1 STABILITY

Stable under normal conditions.

10.2 CONDITIONS TO AVOID

Isolate from oxidizers, heat, & open flame. Avoid direct sunlight and ultraviolet light (may degrade).

10.3 MATERIALS TO AVOID

Reacts with strong oxidants, causing fire & explosion hazard. Avoid strong acids, isocyanates.

10.4 HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, carbon dioxide from burning.

10.5 HAZARDOUS POLYMERIZATION

Will not occurs.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 ACUTE HAZARDS

11.1.1 EYE & SKIN CONTACT:
May cause mild irritation to eyes, skin.
11.1.2 INHALATION:
Inhalation of excessive quantities may cause signs of nervous system depression (e.g., headache, drowsiness, loss of coordination and fatigue).
11.1.3 SWALLOWING:
Ingestion of excessive quantities may cause signs of nervous system depression (e.g., headache, drowsiness, loss of coordination and fatigue). Chronic ingestion may hurt kidneys.

11.2 SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
Pre-existing disorders of any target organs (skin, kidneys) can be aggravated by over-exposure by routes of entry to components of this product.

11.3 CHRONIC HAZARDS

11.3.1 CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:
This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%. May cause damage to kidneys if ingested in excessive amounts.
11.3.2 IRRITANCY OF PRODUCT: May mildly irritate contaminated tissue.
11.3.3 SENSITIZATION TO THE PRODUCT: No component of this product is known as a sensitizer.
11.3.4 MUTAGENICITY: No known reports of mutagenic effects in humans.
11.3.5 EMBRYOTOXICITY: No known reports of embryotoxic effects in humans.
11.3.6 TERATOGENICITY: No known reports of teratogenic effects in humans.
11.3.7 REPRODUCTIVE TOXICITY: No known reports of reproductive effects in humans.

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An embryotoxin is a chemical which causes damage to a developing embryo (such as: within the eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process.

11.4 MAMMALIAN TOXICITY INFORMATION

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Propylene Glycol 57-55-6	> 20000 mg/kg(Rats)	> 10000 mg/kg(Rabbits)	6.15 mg/ L(Rats)

SECTION 12. ECOLOGICAL INFORMATION

12.1 ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

12.2 EFFECT OF MATERIAL ON PLANTS AND ANIMALS:

This product may be harmful or fatal to plant and animal life if released into the environment.

Refer to Section 11 (Toxicological Information) for further data on the effects of this product's components on test animals.

12.3 EFFECT OF MATERIAL ON AQUATIC LIFE:
No aquatic environmental information is available on this product. Keep out of aquatic environments.

12.4 MOBILITY IN SOIL
No data available.

12.5 DEGRADABILITY
No data available.

12.6 ACCUMULATION
No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Processing, use or contamination may change the waste disposal requirements. Do not dispose of on land, in surface waters, or in storm drains. Waste should be recycled or disposed of in accordance with regulations. Large amounts should be collected for reuse or consigned to licensed waste haulers for disposal. **ALL DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. IF IN DOUBT, CONTACT PROPER AGENCIES.**

SECTION 14. TRANSPORT INFORMATION

MARINE POLLUTANT: No
DOT/TDG SHIP NAME: Not Regulated
DRUM LABEL: None
IATA / ICAO: Not Regulated
IMO / IMDG: Not Regulated
EMERGENCY RESPONSE GUIDEBOOK NUMBER: None

SECTION 15. REGULATORY INFORMATION

15.1 STANDARD REGULATION:
SARA SECTION 311/312 HAZARDS: None
All components of this product are on the TSCA list.
SARA Title III Section 313 Supplier Notification:
This product does not contain any toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372.
15.2 STATE REGULATIONS:
CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65):
This product is not listed, but it may contain impurities/trace elements (in amounts of less than 0.1%) which are known to the State of California to cause cancer or reproductive toxicity under Proposition 65, State Drinking Water and Toxic Enforcement Act.
15.3 INTERNATIONAL REGULATIONS
The identified components of this product are either listed or exempted on the chemical Inventories of the following countries:
Australia (AICS), Canada (DSL or NDSL), China (IECSC), Europe (EINECS, ELINCS), Japan (METI/CSCL, MHLW/ISHL), South Korea (KECI), New Zealand (NZIoC), Philippines (PICCS), Switzerland (SWISS), Taiwan (NECSI), USA (TSCA).

SECTION 16. OTHER INFORMATION

16.1 HAZARD RATINGS:

HMIS	NFPA

HEALTH	0	HEALTH	0
FLAMMABILITY	1	FLAMMABILITY	1
PHYSICAL HAZARDS	0	REACTIVITY	0
PERSONAL PROTECTION	*	SPECIAL HAZARD	N/A

(*Personal Protection Rating to be supplied by user based on use conditions.)
This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

16.2 EMPLOYEE TRAINING:
See Section 2 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

16.3 SDS DATE: 04/15/2021

NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their handling, and disposal of the product. Users also assume all risks in regard to the publication or use of, or reliance upon information contained herein. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.