Houghton Chemical Corporation

Safety Data Sheet



Pah | nol[®] Non-Toxic Antifreeze

| | | | Section 1 - Identifica | tion | | | | |
|--------------------------------|---|--|---|--|------------------------|--|--|--|
| | | Houghton Chemical Corporation | | | | | | |
| Manufacturer Add | dress | 52 Cambridge Street, Allston, MA 02134 | | | | | | |
| Emergency Telep | hone | | 1-617-254-1010 or 1-800-777-2466 CHEMTREC: 1-800-424-9300 | | | | | |
| J J J | | | ifreeze/Inhibited Propylene Glyco | | | | | |
| Chemical Family | | | pylene Glycol Mixture | Л | | | | |
| | | | at Transfer Fluid | | | | | |
| Restrictions on U | | | ution to 50% is generally recomm | ended: dilute to meet lo | ocal condition. | | | |
| | | | Section 2 – Hazard(s) Iden | | | | | |
| Hazard Classifica | ition | | t Applicable | | | | | |
| Signal Word | | | t Applicable | | | | | |
| | | | ile this material is not considered | hazardous by the OSH | A Hazard Communication | | | |
| Hazard Statement | | | ndard (29 CFR 1910.1200), this | | | | | |
| | | saf | e handling and proper use of this | product. | | | | |
| | | | t Applicable | | | | | |
| | | | ep container tightly closed. Keep | | | | | |
| Precautionary Sta | atement | | oking, drinking or eating around p | | | | | |
| Frecautionary Statement | | equipment. Store in a cool, dry and well-ventilated location. Avoid release to the | | | | | | |
| | | en۱ | vironment. | | | | | |
| Any other Hazard not otherwise | | No | Not Applicable | | | | | |
| Classified | classified Section 3 – Composition and Information on Ingredients | | | | | | | |
| Chemical Name | 000101 | | Common name and synonyms | CAS # | % by weight | | | |
| Propylene Glycol | | | 1,2 - Propanediol | 57-55-6 | 96% | | | |
| Water | | | N/A | 7732-18-5 | 2% | | | |
| Inhibitors & Dye | | | N/A | Proprietary | 2% | | | |
| | | | | | | | | |
| | | | Section 4 – First aid Me | Section 4 – First aid Measures | | | | |
| | | | Symptoms of Exposu | | | | | |
| Acute | Irritation of affe | cted | | | | | | |
| Delayed | | | | | | | | |
| Inhalation | Vapors and mis | Vapors and mists expected to be slightly irritating to upper respiratory tract. | | | | | | |
| Skin | Irritation may re | Irritation may result | | | | | | |
| Eye Contact | Irritation may cause transitory stinging and tearing. | | | | | | | |
| Indestion Very low to | | ity if ingested. Ingestion of larger amounts may cause gastrointestinal upset and | | | | | | |
| possible temporar | | | rary central nervous system depression. | | | | | |
| | | | First Aid Instructions | | | | | |
| Inhalation | | | . If symptoms persist, seek medic | | | | | |
| Skin | | n soap and water. Remove any contaminated clothing. Seek medical attention if | | | | | | |
| Eye Contact | | | ps or persists. for at least 20 minutes. Seek medical attention if irritations develops or persists. | | | | | |
| Ingestion | | | niting, seek medical attention. | | | | | |
| Other | Not Applicable | | ming, seek medical attention. | | | | | |
| Other | Not Applicable | | Section 5 – Fire Fighting N | lossuros | | | | |
| | | | | | foam dry chemical sand | | | |
| Suitable Extinguis | shing Material | | Water, water fog, water spray, alcohol-resistant foam, dry chemical, sand, or carbon dioxide. | | | | | |
| Unsuitable Exting | uishing Material | | No Data Available | | | | | |
| Hazards from Co | | | Smoke may contain the origin | Smoke may contain the original material in addition to but not limited to: Carbon Monoxide, Carbon Dioxide. | | | | |
| Special Protective | e Equipment for | | | Wear self-contained breathing apparatus and protective suit. Evacuate | | | | |
| Firefighters | | | personnel to safe areas and keep upwind of fire. | | | | | |

| | Section 6 – | Accidental Release Measures | | | |
|--|---------------|--|--|--|--|
| | | Ventilate area of leak or spill. Remove all sources of ignition. Wear | | | |
| Use of personal precautions | | appropriate personal protective equipment. | | | |
| | | Usage of safety glasses or googles is recommended. Chemical | | | |
| | | resistant gloves, chemical resistant apron, boots, and full suit will be | | | |
| Protective equipment to prevent | he | necessary depending on the extent of clean up task. If ventilation do | | | |
| contamination of skin, eyes, and clothing. | | not control airborne concentration then respiratory protection | | | |
| | | equipment that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 | | | |
| | | requirements should be used. | | | |
| | | Collect liquid in an appropriate container or absorb with inert material | | | |
| Methods and materials used for o | containment | and place in chemical waste container. | | | |
| Cleanup procedures | | Do not flush to sewer. | | | |
| · · | Section | 7 – Handling and Storage | | | |
| Precautions for safe handling | | Protect container from physical damage. Wear appropriate personal | | | |
| | | protection equipment. Do not expose containers to open flame, | | | |
| | | excessive heat, or direct sunlight. Use local exhaust over processing | | | |
| | | area. Do not eat, drink or smoke around products. | | | |
| | | Store in a cool, dry and well ventilated area away from sources of heat, | | | |
| Recommendations on the conditi | ons for safe | moisture and incompatible materials. Observe all warnings and | | | |
| storage, Storage/handling incom | | precautions listed for the product. Keep container closed to prevent | | | |
| | | contamination. | | | |
| Sec | tion 8 – Expo | osure Controls/Personal Protection | | | |
| OSHA Permissible Exposure Lim | | Not Applicable | | | |
| American Conference of Govern | | | | | |
| Industrial Hygienists (ACGIH) Th | | Not Applicable | | | |
| Values | | | | | |
| Other Exposure Limits | | AIHA WEEL is 10 mg/m3 for total vapor and aerosol. | | | |
| | | Use mechanical (general) ventilation to control airborne levels below | | | |
| Engineering Control | | exposure guidelines. | | | |
| | | Wear protective safety glasses or goggles, gloves, apron, vapor | | | |
| Individual Protection Measures | | respirator. | | | |
| Section | 9 – Physical | and Chemical and Chemical Properties | | | |
| Appearance (physical state, colo | | Liquid, Clear, Orange | | | |
| Upper/lower flammability or explo | | Not Explosive; LOWER: 2.6% (v) UPPER: 12.5% (v) | | | |
| Odor | | Slight to no odor | | | |
| | | 133 Pa / 0.1 mmHg | | | |
| Vapor pressure Odor threshold | | Not Applicable | | | |
| Vapor density (air = 1) | | 2.10 | | | |
| pH | | 9.0 - 10.5 | | | |
| Relative density | | 1.055 - 1.065 | | | |
| Freezing point (as 50%) | | -22°F / -31°C | | | |
| | | Miscible in water | | | |
| Solubility(ies) Initial boiling point and boiling rar | | | | | |
| <u> </u> | ige | 311°F / 155°C | | | |
| Flash point | 1) | 225°F / 107°C | | | |
| Evaporation rate (Butyl Acetate = | - 1) | <1 Not Elammable | | | |
| Flammability (solid, gas) | tor | Not Flammable | | | |
| Partition coefficient: n-octanol/wa | lief | No Data Available | | | |
| Auto-ignition temperature | | > 700°F / > 370°C | | | |
| Decomposition temperature; and | | Not Applicable | | | |
| Viscosity | 0 | ~75 cps at 60°F | | | |
| | | 0 – Stability and Reactivity | | | |
| Reactivity | | ble under typical use temperatures. | | | |
| Chemical Stability | | ble under typical use temperatures. | | | |
| Hazardous Reactions | | with oxidizing materials and strong acids. | | | |
| Conditions to Avoid | , , | ignition sources and incompatibles. | | | |
| Incompatible Materials | | with oxidizing agents and strong acids. | | | |
| Carbon dioxid | | de and carbon monoxide may form when heated to decomposition. | | | |
| Decomposition Products Aldehydes, ald | | | | | |

| | S | | logical Information | | | |
|---|---|---|---|--|------------------|--|
| Likely Routes of Exp | | | s / Skin / Ingestion / Inh | | | |
| | | ort Term Exposure | | om Long Term I | Exposure | |
| , | Irritation of affected | | Irritation of affected area | | | |
| Immediate Effects | Irritation of affected | ed area | Irritation of affected area | | | |
| Chronic Effects | Not Applicable | | Lactic acidosis, stupor and seizures have been reported following chronic ingestion. | | | |
| The numerical measures of toxicity (e.g., acute toxicity estimates such as the LD50 (median lethal dose)) - the estimated amount [of a substance] expected to kill 50% of test animals in a single dose. | | | Skin: The LD50 for skin absorption in rabbits is >10,000 mg/kg Ingestion: The oral LD 50 for rats is 20,000 mg/kg | | | |
| Description of the sy symptoms associate including symptoms exposure. | ed with exposure to | | Irritation of affected are seizures. | eas. Lactic acido | osis, stupor and | |
| Listed in the National Toxicology Program (NTP) Report on Carcinogens? | No | Found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs? | No | Found to be a potential carcinogen by OSHA? | No | |
| | | Section 12 – Ecolo | ogical Information | | | |
| Ecotoxicity | Low Ecotoxici | ty . | | | | |
| Persistence and Degradability | Biodegradable |) | | | | |
| Bioaccumulation | Does not bioa | Does not bioaccumulate significantly | | | | |
| Mobility in Soil | Dissolves in water. If product enters soil, it will be highly mobile and may contaminate ground water | | | | taminate ground | |
| Other Adverse Effects | No Data Avail | No Data Available | | | | |
| | Ś | ection 13 – Dispo | sal Considerations | 5 | | |
| Do not dump into se agencies to determine | wers, on ground o | r into any bodies of wat | ter. Contact local sewer | | e and/or federal | |
| ~~~~ | | Section 14 – Tran | sport Information | | | |
| Is product DOT regu | lated in Non-Bulk | | | No | | |
| | | DOT | BULK | | | |
| UN number | | | | Not Regulate | ed be | |
| | | | Not Regulated | | | |
| UN proper shipping name Transport hazard class(es) | | | | Not Regulated | | |
| Packing group number | | | | Not Regulated | | |
| Environmental hazards (e.g., identify if it is a marine pollutant International Maritime Dangerous Goods Code (IMDG Code) | | | | Not Regulated | | |
| Guidance on transport in bulk (according to Annex II of MARF International Code for the Construction and Equipment of Shi Chemicals in Bulk (International Bulk Chemical Code (IBC Co | | POL 73/783 and the ps Carrying Dangerous | Dangerous Not Regulated | | | |
| | | loyee should be aware nveyance either within | | Not Regulate | ed | |
| Section | 15 – Regulato | ry Information (No | ot indicated anywh | ere else on t | his SDS) | |
| Safety Regulations | | OSHA Hazard Commu Chemical" as defined b Standard, 29 CFR 1910 | nication Standard: This y the OSHA Hazard Co | product is not a | | |
| Health Regulations | | Not Available | | | | |
| Environmental Regulations Not Available | | | | | | |

| SARA 311/312 | mater health accor | d upon available information, this rial is classified as the following n and/or physical hazards ding to Section 311 & 312 | Superfund Amendments and Reauthorization Act of 1986 Title III (SARA) Sections 311 and 312: Immediate (Acute) Health Hazard - No; Delayed (Chronic) Health Hazard - No; Fire Hazard - No; Reactive Hazard - No; Sudden Release of Pressure Hazard - No. Section 313: To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute. | |
|--|---------------------------------|---|---|--|
| | Blue/Health | | 0 | |
| HMIS | Red/Flammability | | 1 | |
| HMIS | Orange/Physical Hazard | | 0 | |
| | White | Personal Protection | Х | |
| | Healt | h (Blue) | 0 | |
| NFPA | White Health Flamn | mability (Red) | 1 | |
| NFPA 0 (no hazard) to 4 (severe risk) | Instability/Reactivity (Yellow) | | N/A | |
| | Speci | al (White) | 0 | |
| US Toxic Substance Control Act | | Components of this product listed in the February 2019 TSCA Inventory update are designated as ACTIVE or are exempt from Inventory requirements under 40 CFR 720.30 | | |
| CA Proposition 65 | | This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm. | | |
| CEPA – Domestic Substances List (DSL) | | All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed. | | |
| | S | ection 16 – Other Information | | |

This SDS is applicable for all dilutions and containers for this brand of product. The information herein is provided in good faith and believed to be accurate as of the effective revision date shown. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/ user's responsibility to ensure that activities comply with all federal, state, provincial or local law.

| Properties ¹ | 60% | 50% | 40% | 35% | 30% | 25% |
|---------------------------------------|-----|---------------|-----|---------------|---------------|-----|
| Pah nol® Non-Toxic Antifreeze | | 48% | | 34% | 30% | |
| Performance Additives and Water | | 52% | | 66% | 70% | |
| Specific Gravity (15/15°C 60/60°F) | | 1.043 - 1.054 | | 1.034 - 1.042 | 1.029 - 1.038 | |
| Reserve Alkalinity (minimum) | | 6 | | 4 | 3 | |
| Freeze Point (maximum) | | -22°F / -31°C | | 4°F / -16°C | 10°F/-12°C | |

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