



Material Safety Data Sheet HOUGHTO-SAFE 620

1. Chemical Product and Company Identification

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|--------------|---|---------------------------------|-------------------------------------|
| Product Name | HOUGHTO-SAFE 620 | Emergency Phone Number | 24 HOUR - (800) 424-9300 (CHEMTREC) |
| Company Name | Houghton International Inc. Madison & Van Buren Aves Valley Forge, PA 19482 | Emergency Phone Number - Canada | 24 HOUR - 613-996-6666 (CANUTEC) |
| Company Name | Houghton Canada Inc. 115 Walker Drive, Unit B Brampton, ON L6T 5P5 Phone: 905-494-3770 | FAX | (610) 666-1376 |
| | | Customer Service | (888) 459-9844 |
| Website | www.houghtonintl.com | | |
| Telephone | (610) 666-4000 | | |

2. Hazardous Ingredients

| Component | Cas No | % by Weight | Hazards |
|---------------------|----------|-------------|---|
| Diethylaminoethanol | 100-37-8 | <1 | TLV: 2 ppm (skin) PEL: 10 ppm (skin) |
| Diethylene Glycol | 111-46-6 | 30-50 | TLV: N/E PEL: N/E |

N/E - Not Established; N/A - Not Applicable; Mfr - Manufacturer Recommendation

3. Hazards Identification

| | |
|----------------------|--|
| Primary Entry Routes | EYES, SKIN, INHALATION |
| Acute Effects | |
| Inhalation | INHALATION OF MISTS MAY CAUSE IRRITATION OF THE UPPER RESPIRATORY TRACT. |
| Eye | MAY CAUSE EYE IRRITATION. |
| Skin | PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE IRRITATION. |
| Ingestion | AVOID INGESTION. MAY CAUSE NAUSEA, DIZZINESS, DIARRHEA, VOMITING. REPEATED OVEREXPOSURE MAY LEAD TO LIVER AND KIDNEY DAMAGE. |
| Carcinogenicity | THIS PRODUCT DOES NOT CONTAIN ANY COMPONENT REPORTABLE AS A CARCINOGEN UNDER 29 CFR 1910.1200. |

**Material Safety Data Sheet
HOUGHTO-SAFE 620****3. Hazards Identification - continued**

Medical Conditions
Aggravated by LongTerm
Exposure

PRE-EXISTING SKIN AND RESPIRATORY CONDITIONS MAY BE AGGRAVATED
BY EXPOSURE.

Chronic Effects

SEE EFFECTS ABOVE.

HMIS:

Health 1

Flammability 0

Physical Hazard 0

* indicates that there may be chronic health effects present

4. First Aid Measures

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| Inhalation | IF INHALED, REMOVE TO A SOURCE OF FRESH AIR. |
| Eye Contact | FLUSH EYES WITH WATER FOR 15 MINUTES. CONSULT PHYSICIAN. |
| Skin Contact | WASH SKIN WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSING. CONSULT PHYSICIAN IF IRRITATION PERSISTS. |
| Ingestion | IF INGESTED, GIVE LIQUIDS TO DILUTE. INDUCE VOMITING. CONSULT PHYSICIAN. |
| Note to Physicians | NO SPECIFIC ANTIDOTE KNOWN. BASED ON INDIVIDUAL REACTIONS OF THE PATIENT, THE PHYSICIAN'S JUDGMENT SHOULD BE USED TO CONTROL SYMPTOMS AND CLINICAL CONDITIONS. |

N/A - Not Applicable

5. Fire Fighting Measures

| | |
|--------------------------|--|
| Flash Point | N/A - PRODUCT CONTAINS WATER. |
| Autoignition Temperature | N/D |
| LEL | N/D |
| UEL | N/D |
| Extinguishing Media | PRODUCT CONTAINS WATER. IF WATER IS REMOVED, USE CARBON DIOXIDE, DRY CHEMICAL OR FOAM. |

**Material Safety Data Sheet
HOUGHTO-SAFE 620****5. Fire Fighting Measures - continued**

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| Unusual Fire or Explosion Hazards | CLOSED CONTAINERS MAY SWELL AND RUPTURE WHEN EXPOSED TO EXTREME HEAT. USE WATER SPRAY TO COOL CONTAINERS EXPOSED TO FIRE AND HEAT. |
| Fire Fighting Instructions | WEAR PROTECTIVE GEAR DURING FIREFIGHTING. |
| NFPA: | |
| Health | 1 |
| Flammability | 0 |
| Reactivity | 0 |
| Special | N/A |

N/A - Not Applicable; ND - Not Determined; > - Greater Than; < - Less Than

6. Accidental Release Measures

| | |
|-----------------------------|--|
| Spill or Release Procedures | FOR SMALL SPILLS, APPLY DRY ABSORBENT MATERIAL AND SWEEP UP THOROUGHLY. FOR LARGER SPILLS, RECOVER AND REUSE IF POSSIBLE. FLUSH AREA WITH WATER AND MOP UP THOROUGHLY. |
|-----------------------------|--|

7. Handling and Storage

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| Storage and Handling Requirements | STORE AWAY FROM STRONG OXIDIZERS. KEEP CONTAINERS CLOSED WHEN NOT IN USE. EMPTY CONTAINERS MAY RETAIN PRODUCT RESIDUE. ALL PRECAUTIONS APPLY TO EMPTY CONTAINERS. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. |
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8. Exposure Controls/Personal Protection

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| Engineering Controls | PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO MINIMIZE AIRBORNE CONCENTRATIONS AND REDUCE EXPOSURE. |
| Personal Protective Equipment | |
| Eye/Face Protection | WEAR SAFETY GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS. |
| Skin Protection | USE GLOVES AND LONG SLEEVES TO MINIMIZE SKIN EXPOSURE. USE APRON OR OVERALLS IF SPLASHING IS POSSIBLE. |

**Material Safety Data Sheet
HOUGHTO-SAFE 620****8. Exposure Controls/Personal Protection - continued**

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| Respiratory Protection | IF THE EXPOSURE LIMITS ARE EXCEEDED, USE AN AIR PURIFYING RESPIRATOR. |
| Other | EYEWASH AND SAFETY SHOWER RECOMMENDED. |
| Comments | USE OF GLOVES AND OTHER SKIN PROTECTION DEPENDS ON THE DURATION OF EXPOSURE AND THE TASK BEING PERFORMED. IF NECESSARY, USE CHEMICALLY RESISTANT GLOVES SUCH AS NEOPRENE, NITRILE OR EQUIVALENT MATERIALS. |

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, or applying cosmetics.

9. Physical and Chemical Properties

| | | | |
|------------------------------|-----------------|-----------------------------|---------------|
| Appearance | CLEAR RED FLUID | Water Solubility | COMPLETE |
| Odor | AMINE ODOR | Boiling Point | 220°F / 104°C |
| Vapor Pressure (mmHg) | N/D | Freezing/ Melting Point | N/D |
| Vapor Density (Air = 1) | N/D | Evaporation Rate (BuAc = 1) | < 1 |
| Specific Gravity (Water = 1) | 1.07 - 1.09 | | |
| pH (Neat) | 9.5 - 10.1 | | |

N/D - Not Determined; N/A - Not Applicable; > - Greater Than; < - Less Than

10. Stability and Reactivity

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| Stability | THIS PRODUCT IS STABLE AT ROOM TEMPERATURE IN CLOSED CONTAINERS UNDER NORMAL STORAGE AND HANDLING CONDITIONS. |
| Chemical Incompatibilities | AVOID CONTACT WITH STRONG OXIDIZERS. |
| Hazardous Decomposition Products | THERMAL: OXIDES OF CARBON AND NITROGEN |
| Hazardous Polymerization | HAZARDOUS POLYMERIZATION WILL NOT OCCUR. |

**Material Safety Data Sheet
HOUGHTO-SAFE 620****11. Toxicological Information**

NO DATA AVAILABLE

12. Ecological Information

NO DATA AVAILABLE

13. Disposal Considerations

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| Disposal | FOLLOW PERTINENT REGULATIONS FOR DISPOSAL. IT IS THE RESPONSIBILITY OF THE PRODUCT USER TO DETERMINE, AT THE TIME OF DISPOSAL, WHETHER A MATERIAL CONTAINING THE PRODUCT OR DERIVED FROM THE PRODUCT SHOULD BE CLASSIFIED AS A HAZARDOUS WASTE. (40 CFR 261.20-24) |
| RCRA Hazardous Waste Number | N/A |

14. Transportation Information

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| Proper Shipping Name | NOT HAZARDOUS UNDER DOT, AIR OR IMO REGULATIONS. |
| TDG | NOT REGULATED UNDER THE CANADIAN TRANSPORTATION OF DANGEROUS GOODS REGULATION. |

15. Regulatory Information

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| TSCA Section 8(b) | ALL OF THE COMPONENTS IN THIS PRODUCT ARE ON THE TSCA INVENTORY. |
| DSL | ALL OF THE COMPONENTS IN THIS PRODUCT ARE ON THE CANADIAN DSL. THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL OF THE INFORMATION REQUIRED BY THE CPR. |
| CERCLA Reportable Quantity | NONE |
| SARA Title III, Section 313 | THIS PRODUCT CONTAINS NO TOXIC CHEMICAL SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372. |

**Material Safety Data Sheet
HOUGHTO-SAFE 620****15. Regulatory Information - continued**

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| SCAQMD | THIS PRODUCT IS NOT REGULATED UNDER CALIFORNIA'S SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT'S RULE 1144. |
| Ozone Depleting Substances | THIS PRODUCT WAS NOT MANUFACTURED, DOES NOT CONTAIN, AND WAS NOT PACKAGED USING ANY CLASS I OR CLASS II OZONE DEPLETING SUBSTANCE AS DEFINED BY THE CLEAN AIR ACT. |
| WHMIS | D2B |

16. Other Information

Prepared By GARY CARL
Title MANAGER, PRODUCT SAFETY

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