



# Material Safety Data Sheet

## AQUASHIELD

### 1. Chemical Product and Company Identification

Product Name	AQUASHIELD	Emergency Phone Number	24 HOUR - 613-996-6666 (CANUTEC)
Company Name	Houghton International Inc. Madison & Van Buren Aves Valley Forge, PA 19482	- Canada	
Company Name	Houghton Canada Inc. 115 Walker Drive, Unit B Brampton, ON L6T 5P5 Phone: 905-494-3770	CHEMTREC Company Code	HOUH
Website	www.houghtonintl.com	CHEMTREC Customer Number	10769
Telephone	(610) 666-4000	FAX	(610) 666-1376
Emergency Phone Number	24 HOUR - (800) 424-9300 or (703) 527-3887 (CHEMTREC)	Customer Service	(888) 459-9844

### 2. Hazardous Ingredients

Component	Cas No	% by Weight	Hazards
Lithium Hydroxide	1310-65-2	1-5	TLV: N/E PEL: N/E STEL: N/E Other: Corrosive
Mineral Oil	64741-96-4 64742-62-7	30-60	TLV: 5 mg/m <sup>3</sup> as oil mist PEL: 5 mg/m <sup>3</sup> as oil mist STEL: 10 mg/m <sup>3</sup> as oil mist Other:
Titanium Dioxide	13463-67-7	1-5	TLV: 10 mg/m <sup>3</sup> PEL: 15 mg/m <sup>3</sup> - total dust

N/E - Not Established; N/A - Not Applicable; Mfr - Manufacturer Recommendation  
TLV, STEL - ACGIH; PEL - OSHA

**Material Safety Data Sheet  
AQUASHIELD****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	INGESTION MAY CAUSE NAUSEA OR DISCOMFORT. ASPIRATION MAY CAUSE LUNG DAMAGE.
Carcinogenicity	THIS PRODUCT DOES NOT CONTAIN ANY COMPONENT REPORTABLE AS A CARCINOGEN UNDER 29 CFR 1910.1200.
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	1
Physical Hazard	0

\* indicates that there may be chronic health effects present

**4. First Aid Measures**

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, DO NOT INDUCE VOMITING! CONSULT PHYSICIAN.

**Material Safety Data Sheet  
AQUASHIELD****4. First Aid Measures - continued**

## 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	475°F / 246°C
Method Used	CLEVELAND OPEN CUP
Autoignition Temperature	N/D
LEL	N/D
UEL	N/D
Extinguishing Media	USE CARBON DIOXIDE, DRY CHEMICAL OR FOAM. USE WATER TO COOL CONTAINERS EXPOSED TO FIRE.
Unusual Fire or Explosion Hazards	PRODUCT FLOATS ON WATER CREATING A POTENTIAL FLOATING FIRE HAZARD.
Fire Fighting Instructions	WEAR PROTECTIVE GEAR DURING FIREFIGHTING. DO NOT DIRECT A SOLID STREAM OF WATER INTO BURNING POOLS. THIS MAY CAUSE FROTHING AND INCREASE FIRE INTENSITY.
NFPA:	
Health	1
Flammability	1
Reactivity	0
Special	N/A

N/A - Not Applicable; ND - Not Determined; &gt; - Greater Than; &lt; - Less Than



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### 6. Accidental Release Measures

Spill or Release Procedures      APPLY DRY ABSORBENT MATERIAL AND SWEEP UP THOROUGHLY.

### 7. Handling and Storage

Handling Precautions      USE WITH ADEQUATE VENTILATION. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING.

Storage Requirements      STORE SEPARATELY FROM OXIDIZERS. KEEP CONTAINERS CLOSED WHEN NOT IN USE. STORE IN A COOL, DRY, WELL VENTILATED AREA. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS VAPORS AND RESIDUE AND THEREFORE RETAIN ALL HAZARDS.

### 8. Exposure Controls/Personal Protection

Engineering Controls      PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW THE EXPOSURE LIMITS IN SECTION 2.

Personal Protective Equipment

Eye/Face Protection      WEAR SAFETY GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

Skin Protection      USE CHEMICAL RESISTANT GLOVES AND LONG SLEEVES TO MINIMIZE SKIN EXPOSURE. USE APRON OR OVERALLS IF SPLASHING IS EXPECTED.

Respiratory Protection      USE AN APPROVED RESPIRATOR (SEE 29 CFR 1910.134) IF APPLICABLE EXPOSURE LIMITS ARE EXCEEDED.

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.

**Material Safety Data Sheet  
AQUASHIELD****9. Physical and Chemical Properties**

Appearance	OPAQUE, LIGHT GREENISH-BLUE GREASE	Water Solubility	INSOLUBLE
Odor	MINERAL OIL ODOR	Boiling Point	>450°F
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)	0.894		

N/D - Not Determined; N/A - Not Applicable; &gt; - Greater Than; &lt; - Less Than

**10. Stability and Reactivity**

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
Hazardous Polymerization	HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

**11. Toxicological Information**

NO DATA AVAILABLE

**12. Ecological Information**

NO DATA AVAILABLE

**Material Safety Data Sheet  
AQUASHIELD****13. Disposal Considerations**

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**

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**

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.

SCAQMD

SCAQMD RULE 1144: THIS PRODUCT HAS NOT BEEN TESTED FOR COMPLIANCE WITH CALIFORNIA'S SCAQMD RULE 1144 AND THEREFORE CANNOT BE USED AS A METAL WORKING FLUID OR AS A DIRECT CONTACT LUBRICANT IN CALIFORNIA'S SCAQMD REGION AS PER 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.

**Material Safety Data Sheet  
AQUASHIELD****15. Regulatory Information - continued**

WHMIS

NOT CONTROLLED

**16. Other Information**

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Title

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Telephone Number

(610) 666-4000

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