

**Material Safety Data Sheet  
COSMOLINE 1104****1. Chemical Product and Company Identification**

Product Name	COSMOLINE 1104	CHEMTREC Company Code	HOUH
Company Name	Houghton International Inc. Madison & Van Buren Aves Valley Forge, PA 19482	CHEMTREC Customer Number	10769
Company Name	Houghton Canada Inc. 115 Walker Drive, Unit B Brampton, ON L6T 5P5 Phone: 905-494-3770	FAX  Customer Service	(610) 666-1376  (888) 459-9844
Website	www.houghtonintl.com	Product Use	Corrosion Inhibitor
Telephone	(610) 666-4000		
Emergency Phone Number	24 HOUR - (800) 424-9300 or (703) 527-3887 (CHEMTREC)		
Emergency Phone Number - Canada	24 HOUR - 613-996-6666 (CANUTEC)		

**2. Hazardous Ingredients**

Component	Cas No	% by Weight	Hazards
Aliphatic Petroleum Solvent	64742-47-8 64742-88-7	30-60	TLV: 100 ppm PEL: 500 ppm
Dipropylene Glycol Methyl Ether	34590-94-8	1-10	TLV: 100 ppm (skin) PEL: 100 ppm (skin) STEL: 150 ppm(skin) Other:
Glycol Ether	112-34-5	1-10	TLV: N/E PEL: N/E STEL: N/E Other: 35 ppm (Mfr)
Mineral Oil	64742-52-5	1-10	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:

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

**Material Safety Data Sheet  
COSMOLINE 1104****3. Hazards Identification**

Primary Entry Routes	EYES, SKIN, INHALATION
Acute Effects	
Inhalation	INHALATION MAY CAUSE DIZZINESS, HEADACHE, NAUSEA WITH IMPROPER VENTILATION.
Eye	MAY CAUSE MILD EYE IRRITATION.
Skin	MAY CAUSE MILD IRRITATION TO SKIN. CAN CAUSE DEFATTING ACTION ON SKIN.
Ingestion	INGESTION MAY CAUSE NAUSEA.
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	UNKNOWN
HMIS:	
Health	1
Flammability	2
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. APPLY SKIN CREAMS IF DEFATTING ACTION HAS OCCURRED. REMOVE CONTAMINATED CLOTHING AND LAUNDRY BEFORE REUSING.
Ingestion	IF INGESTED, DO NOT INDUCE VOMITING. GIVE LIQUIDS TO DILUTE. 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.

**Material Safety Data Sheet  
COSMOLINE 1104****4. First Aid Measures - continued**

N/A - Not Applicable

**5. Fire Fighting Measures**

Flash Point	108°F
Method Used	PENSKY MARTENS CLOSED CUP
Autoignition Temperature	N/D
LEL	0.8
UEL	5.0
Extinguishing Media	USE CARBON DIOXIDE, DRY CHEMICAL OR FOAM.
Unusual Fire or Explosion Hazards	VAPOR ACCUMULATION MAY FLASH OR EXPLODE IF IGNITED.
Fire Fighting Instructions	AIR-PACK WITH FULL FACEPIECE WHEN IN CONFINED AREA.
NFPA:	
Health	1
Flammability	2
Reactivity	0
Special	N/A

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

**6. Accidental Release Measures**

Spill or Release Procedures	ELIMINATE ALL SOURCES OF IGNITION. PROVIDE VENTILATION. APPLY DRY ABSORBENT MATERIAL AND SWEEP UP THOROUGHLY. PLACE IN A SUITABLE CONTAINER FOR DISPOSAL.
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**7. Handling and Storage**

Storage and Handling Requirements	AVOID CONTACT WITH STRONG OXIDIZERS. DO NOT STORE NEAR SOURCES OF HEAT, OPEN FLAMES OR SPARKS. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION.
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### 8. Exposure Controls/Personal Protection

Engineering Controls	LOCAL EXHAUST IN CONFINED SPACES; OTHERWISE, GENERAL TYPE IS ADEQUATE
Personal Protective Equipment	
Eye/Face Protection	WEAR SAFETY GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.
Skin Protection	USE RUBBER GLOVES AND PROTECTIVE CLOTHING TO MINIMIZE SKIN CONTACT.
Respiratory Protection	RESPIRATORY PROTECTION REQUIRED IF APPLICABLE EXPOSURE LIMITS ARE EXCEEDED.
Other	EYEWASH AND SAFETY SHOWER RECOMMENDED.

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, REDDISH AMBER LIQUID	Boiling Point	315-385°F
Odor	LIGHT SOLVENT ODOR	Freezing/ Melting Point	N/D
Vapor Pressure (mmHg)	6 (@ 106 DEG.F.)	VOC	60.9%
Vapor Density (Air = 1)	4.9	VOC Method Used	CALCULATED
Specific Gravity (Water = 1)	0.87	Evaporation Rate (BuAc = 1)	SLOWER THAN ETHER
pH (Neat)	N/A		
Water Solubility	INSOLUBLE		

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

**Material Safety Data Sheet  
COSMOLINE 1104****10. Stability and Reactivity - continued**Hazardous Decomposition  
Products

THERMAL; OXIDES OF CARBON, NITROGEN. TRACE OXIDES OF SULFUR

Hazardous Polymerization

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

**11. Toxicological Information**

NO DATA AVAILABLE

**12. Ecological Information**

NO DATA AVAILABLE

**13. Disposal Considerations**

Disposal

FOLLOW PERTINENT REGULATIONS FOR DISPOSAL. BY RCRA REGULATIONS, THIS PRODUCT IS CLASSIFIED AS A HAZARDOUS WASTE IF DISCARDED. (FLASH POINT BELOW 140 DEG.F.; EXCEEDS 100 PPM BARIUM ON EP TOXICITY)

RCRA Hazardous Waste  
Number

D001; IGNITABILITY. D005; BARIUM.

**14. Transportation Information**

Proper Shipping Name

NON-BULK, GROUND - NOT HAZARDOUS.  
BULK - NA1993, COMBUSTIBLE LIQUID - N.O.S. (CONTAINS PETROLEUM SOLVENT), III;  
AIR AND INTERNATIONAL - UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III.**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 DSL WITH THE EXCEPTION OF ONE COMPONENT AT 3.5% CONCENTRATION LISTED ON THE NDSL.

**Material Safety Data Sheet  
COSMOLINE 1104****15. Regulatory Information - continued**

CERCLA Reportable Quantity	NONE
SARA Title III, Section 313	6% GLYCOL ETHERS (CAS NOS. 111-77-3; 112-34-5) 1% BARIUM DINONYLNAPHTHYLENE SULFONATE (CAS 25619-56-1) 5% ZINC NAPHTHENATE (12001-85-3).
Michigan Critical Materials Register	0.135% BARIUM (I.D. NO. D005; PARAMETER NO. 7440-39-3).
SCAQMD	SCAQMD RULE 1144: THIS PRODUCT EXCEEDS VOC CONCENTRATIONS SET BY SCAQMD AS DETERMINED BY TEST METHOD ASTM E1868-10 AND 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.
WHMIS	B3, D2B

**16. Other Information**

Date of Preparation:	31 October 2011
Prepared By	GARY CARL
Title	MANAGER, PRODUCT SAFETY
Telephone Number	(610) 666-4000

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