



# Material Safety Data Sheet

## HOUGHTO-COAT A-701

### 1. Chemical Product and Company Identification

Product Name	HOUGHTO-COAT A-701 (POLYTOXAL PCF 701)	Emergency Phone Number	3E Company: 1-866-519-4752 (USA, Canada, Mexico)
Company Name	Houghton International Inc. Madison & Van Buren Aves Valley Forge, PA 19482	Company Access Code	333938
Company Name	Houghton Metal Finishing 1055 Windward Ridge Suite 140 Alpharetta, GA 30005	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
Hexafluorotitanic Acid	17439-11-1	5-10	PEL: 2.5 mg/m3

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

### 3. Hazards Identification

Primary Entry Routes	EYES, SKIN, INHALATION
Acute Effects	
Inhalation	INHALATION OF MISTS AND VAPORS MAY CAUSE SEVERE IRRITATION OR CORROSIVE BURNS TO RESPIRATORY TRACT.
Eye	CORROSIVE TO EYES.
Skin	CORROSIVE TO THE SKIN. SYMPTOMS MAY INCLUDE REDNESS, PAIN AND CHEMICAL BURNS TO THE SKIN.
Ingestion	DO NOT INGEST. HARMFUL OR FATAL IF SWALLOWED.
Carcinogenicity	THIS PRODUCT DOES NOT CONTAIN ANY COMPONENT REPORTABLE AS A CARCINOGEN UNDER 29 CFR 1910.1200.
Chronic Effects	UNKNOWN



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### 3. Hazards Identification - continued

**HMIS:**

Health	3
Flammability	0
Physical Hazard	0
Personal Protection	X

\* indicates that there may be chronic health effects present

### 4. First Aid Measures

Inhalation	IF INHALED, REMOVE PERSON TO A SOURCE OF FRESH AIR. IF BREATHING HAS STOPPED, APPLY ARTIFICIAL RESPIRATION AND ADMINISTER OXYGEN IF NECESSARY. OXYGEN SHOULD BE ONLY BE ADMINISTERED BY QUALIFIED PERSONNEL. SEEK MEDICAL ATTENTION.
Eye Contact	IMMEDIATELY FLUSH EYES WITH WATER FOR 15 MINUTES. CONSULT PHYSICIAN.
Skin Contact	IMMEDIATELY FLUSH SKIN WITH WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND DISCARD PROPERLY. CONSULT PHYSICIAN.
Ingestion	IF INGESTED, RINSE MOUTH AND THROAT WITH WATER. 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 - MATERIAL IS NOT FLAMMABLE
Autoignition Temperature	N/D
Extinguishing Media	IN CASE OF FIRE, USE WATER, DRY CHEMICAL, CHEMICAL FOAM OR ALCOHOL-RESISTANT FOAM.
Unusual Fire or Explosion Hazards	CAUTION! PRODUCT IS ACIDIC.



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### 5. Fire Fighting Measures - continued

Hazardous Combustion Products

COMBUSTION MAY RELEASE OXIDES OF CARBON AND HYDROGEN FLUORIDE.

Fire Fighting Instructions

CAUTION! PRODUCT IS HIGHLY ACIDIC. WEAR APPROPRIATE PROTECTIVE GEAR DURING FIREFIGHTING.

NFPA:

Health	3
Flammability	0
Reactivity	0
Special	—

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

### 6. Accidental Release Measures

Spill or Release Procedures

APPLY DRY ABSORBENT MATERIAL AND SWEEP UP. DIKE TO CONTAIN LARGER SPILLS AND EITHER REUSE OR DISPOSE OF DEPENDING ON CONDITION. FLUSH AREA WITH WATER AND MOP UP THOROUGHLY TO AVOID RESIDUAL SLIPPERINESS.

### 7. Handling and Storage

Handling Precautions

CAUTION - MATERIAL IS STRONGLY ACIDIC. WEAR RECOMMENDED PROTECTIVE EQUIPMENT. WASH THOROUGHLY AFTER HANDLING. USE WITH ADEQUATE VENTILATION.

Storage Requirements

AVOID STORAGE NEAR ACIDS, ALKALIES. DO NOT STORE IN GLASS. KEEP CONTAINERS CLOSED WHEN NOT IN USE. STORE IN A DRY WELL VENTILATED AREA AWAY FROM SOURCES OF HEAT. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE WHICH MAY EXHIBIT HAZARDS OF THE PRODUCT.

Storage and Handling Requirements

AVOID CONTACT WITH STRONG OXIDIZERS AND STRONG REDUCING AGENTS.



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### 8. Exposure Controls/Personal Protection

#### Personal Protective Equipment

Eye/Face Protection	WEAR SAFETY GOGGLES OR A FULL FACE SHIELD WHERE SPLASHING IS POSSIBLE.
Skin Protection	RUBBER, NEOPRENE, NITRILE OR EQUIVALENT GLOVES ARE RECOMMENDED DEPENDING ON THE DURATION OF EXPOSURE AND THE TYPE OF WORK RELATED TO PREVENT SKIN EXPOSURE.
Respiratory Protection	RESPIRATORY PROTECTION REQUIRED IF APPLICABLE EXPOSURE LIMITS ARE EXCEEDED.

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

Physical State	LIQUID	Specific Gravity (Water = 1)	1.01 g/cc
Appearance	COLORLESS TO LIGHT YELLOW LIQUID	pH (Neat)	2.2
Odor	MILD	Water Solubility	SOLUBLE
Vapor Pressure (mmHg)	N/A		

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.
Hazardous Polymerization	HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

### 11. Toxicological Information

NO DATA AVAILABLE



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### 12. Ecological Information

NO DATA AVAILABLE

### 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).

### 14. Transportation Information

Proper Shipping Name

UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(HEXAFLUOROTITANIC ACID), 8 , III.

### 15. Regulatory Information

TSCA Section 8(b)

THIS PRODUCT OR ITS COMPONENTS ARE LISTED IN OR EXEMPT FROM THE TSCA INVENTORY REQUIREMENTS.

DSL

ALL OF THE COMPONENTS IN THIS PRODUCT ARE IN COMPLIANCE WITH THE CANADIAN DSL.

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.

WHMIS

E, D2B



**Houghton International Inc.**

**Revision Date : 10/13/2014**

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## 16. Other Information

Prepared By

## Manager, Product Stewardship

Telephone Number

(610) 666-4000

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