



HOUGHTON

# SAFETY DATA SHEET

Issuing Date: 06-21-2015

Revision Date: 07-20-2015

Version 1

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Product Code(s):** 55017200-M  
**Product Name** FC-172  
**Recommended use** Cleaning product  
**Uses advised against** Any other purpose.

### **Manufacturer, Importer, Supplier**

Houghton International Inc.  
Madison & Van Buren Aves.  
Valley Forge, PA 19482  
Telephone: 610-666-4000 FAX: 610-666-1376  
Website: www.houghtonintl.com  
Customer Service: 888-459-9844

Houghton Canada  
915 Meyerside Drive  
Mississauga  
ON LST 1R8

### Emergency telephone number

3E Company 1-866-519-4752 (USA, Canada, Mexico)  
Company Access Code: 333938

## SECTION 2: HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 1
-----------------------------------	------------

### GHS Label elements, including precautionary statements

**Signal Word**  
DANGER

**Hazard Statements**  
Causes serious eye damage



### **Precautionary Statements**

**Precautionary Statements - Prevention**  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response****Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a POISON CENTER or doctor/physician

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other information**

Not applicable

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture. Health hazard information is based on its ingredients.

Chemical Name	CAS-No	Weight %
(2-Methoxymethylethoxy)propanol	34590-94-8	2.5% - 10%
Tetrapotassium pyrophosphate	7320-34-5	2.5% - 10%
Nonylphenol, ethoxylated	9016-45-9	2.5% - 10%

### SECTION 4: FIRST AID MEASURES

**4.1. Description of first-aid measures**

<b>General advice</b>	Immediate medical attention is required. Do not get in eyes, on skin, or on clothing.
<b>Inhalation</b>	Move to fresh air.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Seek immediate medical attention/advice.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**4.2. Most important symptoms and effects, both acute and delayed**

**Main Symptoms** Eye damage/irritation

**4.3. Indication of immediate medical attention and special treatment needed**

**Notes to physician** Treat symptomatically.

### SECTION 5: FIRE FIGHTING MEASURES

**5.1. Extinguishing media****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment: Use CO<sub>2</sub>, dry chemical, or foam, Water spray or fog

**Extinguishing media which shall not be used for safety reasons**

None

### **5.2. Special hazards arising from the substance or mixture**

#### **Special Hazard**

Water runoff can cause environmental damage.

#### **Hazardous Decomposition Products**

None under normal use

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

#### **Advice for non-emergency personnel**

Material can create slippery conditions.

**Advice for emergency responders** For personal protection see section 8.

### **6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

### **6.3. Methods and materials for containment and cleaning up**

After cleaning, flush away traces with water.

### **6.4. Reference to other sections**

See Section 8/12/13 for additional information

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Technical measures/Storage conditions**

Keep container tightly closed in a dry and well-ventilated place.

#### **Recommended Shelf Life**

No information available.

#### **Incompatible Materials**

Strong oxidizing agents, Strong acids, Strong bases

**7.3. Specific end uses**

Specific use(s) Cleaning product

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA WEEL
(2-Methoxymethylethoxy)propanol 34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	TWA: 100 ppm TWA: 600 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 600 ppm TWA: 100 ppm TWA: 600 mg/m <sup>3</sup> STEL: 150 ppm STEL: 900 mg/m <sup>3</sup>	

**Other Exposure Guidelines**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Exposure controls****Engineering Measures**

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**

If splashes are likely to occur, wear: Face-shield.

**Skin and body protection**

Wear protective gloves/clothing.

**Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures**

Regular cleaning of equipment, work area and clothing is recommended.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

**Physical state @20°C**  
**Odor**

liquid  
acidic, sweet

**Appearance**  
**Odor Threshold**

clear, Blue  
Not Applicable

PropertyValuesNote

**pH**

11.0

**Melting Point / Freezing Point**

No information available

**Boiling point/boiling range**

102 °C / 215 °F

**Flash point**

Not Applicable

**Evaporation rate**

< 1

(BuAc = 1)

**Flammability (solid, gas)**

No information available

**Flammability Limits in Air**

**upper flammability limit**

No information available

**Lower flammability limit**

No information available

Vapor pressure	No information available	
Vapor density	No information available	
Relative density	1.031	@ 15.5°C
Solubility(ies)	Soluble in water	
Partition coefficient: n-octanol/water	Not Applicable	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Viscosity, kinematic	No information available	
Explosive properties	Not Applicable	
Oxidizing Properties	Not Applicable	

**9.2 Other information**

Viscosity, kinematic (100°C)	No information available
Pour point	No information available
VOC Content (ASTM E-1868-10)	No information available
VOC Content	No information available

<b>SECTION 10: STABILITY AND REACTIVITY</b>
---

**10.1. Reactivity**

None under normal use conditions

**10.2. Chemical stability**

Stable under normal conditions

**10.3. Possibility of hazardous reactions**

None under normal use conditions

**10.4. Conditions to avoid**

Do not freeze

**10.5. Incompatible Materials**

Strong oxidizing agents, Strong acids, Strong bases

**10.6. Hazardous decomposition products**

None under normal use conditions

<b>SECTION 11: TOXICOLOGICAL INFORMATION</b>
--

**Information on likely routes of exposure**

<b>Product Information</b>	There is no data available for this product
<b>Inhalation</b>	There is no data available for this product.
<b>Eye contact</b>	May result in permanent damage including blindness.
<b>Skin contact</b>	There is no data available for this product.
<b>Ingestion</b>	There is no data available for this product.

**Component Information**

Chemical Name	LD50 Oral (Rat)	LD50 Dermal (Rat/Rabbit)	LC50 Inhalation
(2-Methoxymethylethoxy)propanol 34590-94-8	5230 mg/kg ( Rat )	= 9500 mg/kg ( Rabbit )	
Tetrapotassium pyrophosphate 7320-34-5	2980 mg/kg ( Rat )	> 4640 mg/kg ( Rabbit )	
Nonylphenol, ethoxylated 9016-45-9	960 - 3980 mg/kg ( Rat )	2000 - 2991 mg/kg ( Rabbit )	

**Information on toxicological effects**

**Symptoms** Corrosive - causes irreversible eye damage.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** None known.

**Germ Cell Mutagenicity** None known.

**Carcinogenicity** None known.

**Reproductive toxicity** None known.

**Specific target organ systemic toxicity (single exposure)** None known.

**Specific target organ systemic toxicity (repeated exposure)** None known.

**Aspiration hazard** None known.

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
(2-Methoxymethylethoxy)propanol	>969: 72 h Selenastrum Capricornutum mg/L EC50	>10000: 96 h Pimephales promelas mg/L LC50 static		1919: 48 h Daphnia magna mg/L EC50
Tetrapotassium pyrophosphate	>100: 72 h Desmodesmus subspicatus mg/L EC50	>100: 96 h Oncorhynchus mykiss mg/L LC50		>100: 48 h Daphnia magna mg/L EC50
Nonylphenol, ethoxylated		3.8 - 6.2: 96 h Pimephales promelas mg/L LC50		9.3 - 21.4: 48 h Daphnia magna mg/L EC50

**Persistence and degradability**

No information available.

**Bioaccumulation**

Chemical Name	log Pow
(2-Methoxymethylethoxy)propanol 34590-94-8	-0.35
Nonylphenol, ethoxylated 9016-45-9	3.4

**Mobility**

Will likely be mobile in the environment due to its water solubility.

Other adverse effects No information available

### SECTION 13: DISPOSAL CONSIDERATIONS

#### Waste treatment

**Waste Disposal Methods** Dispose of in accordance with federal, state, and local regulations.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

### SECTION 14: TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

ICAO/IATA Not regulated

IMDG/IMO Not regulated

### SECTION 15: REGULATORY INFORMATION

#### International Inventories

<u>TSCA</u>	Complies
<u>DSL</u>	All components are NOT on the Chemical Inventory
<u>AICS</u>	Does not Comply
<u>PICCS</u>	Does not Comply
<u>KECL</u>	Does not Comply
<u>IECSC</u>	Does not Comply
<u>ENCS</u>	Does not Comply

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**AICS** - Australian Inventory of Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

#### U.S. Federal Regulations

##### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
(2-Methoxymethylethoxy)propanol	34590-94-8	8.5	1.0

##### **SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	no
<b>Fire Hazard</b>	no
<b>Sudden Release of Pressure Hazard</b>	no
<b>Reactive Hazard</b>	no

##### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations****SCAQMD Rule 1144**

This product has not been tested for VOC content by the ASTM E-1868-10 method and is not approved for sale or distribution in the SCAQM District of California if the product is used as a metal forming, metal removal, metal treating, metal protection fluid or as a direct-contact lubricant.

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**International Regulations****Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

D2B Toxic materials

**Other information**

Not applicable

<b>SECTION 16: OTHER INFORMATION</b>
--------------------------------------

<b><u>NFPA</u></b>	Health Hazard 3	Flammability 1	Instability 0	<b>Physical and chemical hazards -</b>
--------------------	-----------------	----------------	---------------	--

**Key or legend to abbreviations and acronyms used in the safety data sheet**

STOT SE - Specific target organ systemic toxicity (Single exposure)  
 STOT RE - Specific target organ systemic toxicity (repeated exposure)  
 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 VOC - Volatile organic compounds  
 NIOSH IDLH: Immediately Dangerous to Life or Health

**Issuing Date:** 06-21-2015

**Revision Date:** 07-20-2015

**Revision Note**

No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

end