



MATERIAL SAFETY DATA SHEET

PPF1 FIBER PREPARATION FLUID

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME FPF1 FIBER PREPARATION FLUID
PRODUCT NO. MCC-PPF1, MCC-PPF03M, FPFC3M, FCC-CLEANER-FIBER, MCC-PPFG, MCC-PPF1P
SYNONYMS, TRADE NAMES NSN: 6850015464699

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2 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Colorless liquid Slight odor of alcohol This product is not flammable. Prolonged contact may cause redness, irritation and dry skin. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Keep out of reach of children.

ENVIRONMENT

The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

PHYSICAL AND CHEMICAL HAZARDS

Vapors are heavier than air and may travel along the floor and in the bottom of containers. Gas or vapor displaces oxygen available for breathing (asphyxiant). Considering the limited amount applied during use and the size of the container, the risk of adverse effects is considered small.

HUMAN HEALTH

Prolonged skin contact may cause redness, irritation and dry skin. Mild dermatitis, allergic skin rash.

POTENTIAL HEALTH EFFECTS

INHALATION

Vapors may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness.

INGESTION

May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.

SKIN CONTACT

Repeated exposure may cause skin dryness or cracking. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

EYE CONTACT

May cause temporary eye irritation.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Weight
1,1,1,2,3,4,4,5,5,5-decafluoropentane	420-640-8	138495-42-8	60-100%
PROPAN-2-OL	200-661-7	67-63-0	30-60%

4 FIRST-AID MEASURES

GENERAL INFORMATION

Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Perform artificial respiration if breathing has stopped.
Do not give victim anything to drink if they are unconscious.

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INHALATION

Move into fresh air and keep at rest. Get medical attention if any discomfort continues.

INGESTION

DO NOT INDUCE VOMITING! Immediately rinse mouth and drink plenty of water (200-300 ml). Do not give victim anything to drink if they are unconscious. Consult a physician for specific advice.

SKIN CONTACT

Remove contaminated clothes and rinse skin thoroughly with water.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Contact physician if discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

This product is not flammable.

SPECIAL FIRE FIGHTING PROCEDURES

Containers close to fire should be removed or cooled with water. Avoid contact with naked flames and hot surfaces as corrosive and toxic decomposition products can be formed.

UNUSUAL FIRE & EXPLOSION HAZARDS

Containers can burst violently when heated, due to excess pressure build-up.

SPECIFIC HAZARDS

In case of fire, toxic gases may be formed.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

FLAMMABILITY LIMIT - 5.0

LOWER(%)

FLAMMABILITY LIMIT - UPPER(%) 11.0

FLASH POINT (°C) None TCC (Tag closed cup).

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear approved, tight fitting safety glasses where splashing is probable.

ENVIRONMENTAL PRECAUTIONS

Avoid discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material.

SPILL CLEAN UP METHODS

Absorb spillage with suitable absorbent material.

7 HANDLING AND STORAGE

HANDLING

Provide good ventilation. Avoid contact with skin and eyes.

STORAGE

Do not store near heat sources or expose to high temperatures.

STORAGE CLASS

This product is not flammable.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

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RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit

HAND PROTECTION

Hand protection not required. For prolonged or repeated skin contact use suitable protective gloves. Neoprene gloves are recommended.

EYE PROTECTION

Wear approved, tight fitting safety glasses where splashing is probable.

HYGIENE MEASURES

When using do not eat, drink or smoke. No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear liquid		
COLOR	Colorless		
ODOR	Slight odor of alcohol		
VOLATILITY DESCRIPTION	Volatile.		
SOLUBILITY	Slightly soluble in water.		
UDF Phrase 1	This product is not flammable.		
This product is not flammable.			
BOILING POINT (°C)	54 C / 129 F (calculated)	VAPOR DENSITY (air=1)	4
VAPOR PRESSURE	226 mm Hg 25 C / 77 F	FLASH POINT (°C)	None TCC (Tag closed cup).

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid contact with naked flames and hot surfaces as corrosive and toxic decomposition products can be formed.

HAZARDOUS POLYMERISATION

Will not polymerize.

MATERIALS TO AVOID

Alkali metals. Alkali earth metals. Powdered metal.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire or high temperatures may form toxic and corrosive vapors. Hydrogen fluoride (HF). Halogenated hydrocarbons. Carbon dioxide (CO2).

11 TOXICOLOGICAL INFORMATION

Name	PROPAN-2-OL
Toxic Dose 1 - LD 50	5045 mg/kg (oral rat)
Toxic Dose 2 - LD 50	3600 mg/kg (oral-mouse)
Toxic Conc. - LC 50	16,000 ppm/1h (inh-rat)
Name	1,1,1,2,3,4,4,5,5,5-decafluoropentane
Toxic Dose 1 - LD 50	>5,000 mg/kg (oral rat)
Toxic Conc. - LC 50	114 mg/l/4h (inh-rat)

12 ECOLOGICAL INFORMATION

LC 50, 96 hrs, Fish mg/l 27.2

EC 50, 48 hrs, Daphnia, mg/l 11.7

BIOACCUMULATION

No data available on bioaccumulation.

Name	PROPAN-2-OL
LC 50, 96 hrs, Fish mg/l	9,640
EC 50, 48 hrs, Daphnia, mg/l	5102
IC 50, 72 hrs, Algae, mg/l	>2,000
Name	1,1,1,2,3,4,4,5,5,5-decafluoropentane

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LC 50, 96 hrs, Fish mg/l 13
 IC 50, 72 hrs, Algae, mg/l 120

13 DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

TRANSPORT NOTES

Not regulated. The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

MARKINGS

None

15 REGULATORY INFORMATION

INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
PROPAN-2-OL	DSL	Yes						
1,1,1,2,3,4,4,5,5,5-decafluoropentane	DSL	Yes						

COMPONENT	TSCA 12(b) Export Notification
1,1,1,2,3,4,4,5,5,5-decafluoropentane	Yes

SARA (311/312) HAZARD CATEGORIES

Acute

REGULATORY STATUS (US)

TSCA: The ingredients of this product are on the TSCA Inventory. SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

TSCA Section 5 (a) (e) (f).

REGULATORY REFERENCES

29 CFR 1910.1010 Federal Regulations (OSHA Standard). NFPA30 Flammable and Combustible Liquids Code.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM -WHMIS

LABEL(S) FOR SUPPLY



Materials Causing
 Other Toxic
 Effects.

CONTROLLED PRODUCT CLASSIFICATION

Canadian WHMIS Classification D2 WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (CPR SECTION (33)) This product has been classified according to the hazard criteria of the Controlled Product Regulations, and the MSDS contains all required information.

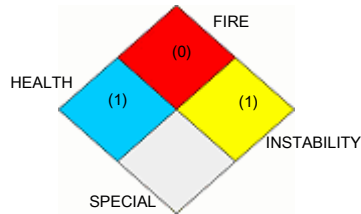
16 OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

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HEALTH	1
FLAMMABILITY	0
PHYSICAL	1
PERSONAL PROTECTION	supervisor fc

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



REVISION COMMENTS

NOTE: Lines within the margin indicate significant changes from the previous revision.

REVISION DATE 12/06/2009

VERSION No. 2

SAFETY DATA SHEET STATUS

Approved.

DATE March 19, 2009

DISCLAIMER

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.