

**Specialty Polymer PGMEA Solution (S)**

Version 2.1

Revision Date 11/02/2015

Ref. 130000142809

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Specialty Polymer PGMEA Solution (S)
Restrictions on use	:	For research use only.
Manufacturer/Supplier	:	The Chemours Company FC, LLC 1007 Market Street Wilmington, DE 19899 United States of America
Product Information	:	1-844-773-CHEM (outside the U.S. 1-302-773-1000)
Medical Emergency	:	1-866-595-1473 (outside the U.S. 1-302-773-2000)
Transport Emergency	:	CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)
Other information	:	For Research and Development purposes only. Must be handled only under the direct supervision of a technically qualified individual.

SECTION 2. HAZARDS IDENTIFICATION**Product hazard category**

Flammable liquids

Category 3

Skin sensitisation

Category 1

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Label content

Pictogram

:



Signal word

: Warning

Hazardous warnings

: Flammable liquid and vapour.
May cause an allergic skin reaction.

Hazardous prevention measures

: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/ eye protection/ face protection.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Store in a well-ventilated place. Keep cool.
Dispose of contents/ container to an approved waste disposal plant.

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Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 32 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
1-Methoxy-2-propyl acetate	108-65-6	70 - 91 %
Fluorinated Polymer		9 - 30 %
Thioxanthone Compounds		0 - 1 %
Halogenated borate		0 - 1 %

SECTION 4. FIRST AID MEASURES

- General advice : When symptoms persist or in all cases of doubt seek medical advice.
- Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Symptoms may be delayed. Call a physician immediately.
- Skin contact : Wash off immediately with soap and plenty of water. Wash contaminated clothing before re-use.
- Eye contact : Rinse immediately with plenty of water for at least 15 minutes. Seek medical advice.



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- Ingestion : Call a physician or poison control centre immediately. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
- Most important symptoms/effects, acute and delayed : No applicable data available.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : No applicable data available.
- Specific hazards : Flammable liquid
Hazardous decomposition products formed under fire conditions. Hazardous combustion products Carbon monoxide, Carbon dioxide
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Evacuate personnel to safe areas. Cool containers/tanks with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

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- Safeguards (Personnel) : Evacuate personnel to safe areas. Use personal protective equipment. Ventilate the area.
- Environmental precautions : Do not discharge to streams, ponds, lakes or sewers. Avoid subsoil penetration.
- Spill Cleanup : Remove all sources of ignition. Use only non-sparking tools. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers.
- Accidental Release Measures : Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Do not use sparking tools. Ground containers when transferring material. Avoid formation of respirable particles. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before re-use.
- Handling (Physical Aspects) : Vapours may form explosive mixtures with air. Keep away from open flames, hot surfaces and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapours.
- Dust explosion class : No applicable data available.
- Storage : Keep containers tightly closed in a dry, cool and well-ventilated place. Grounding and elimination of the static charge is recommended. Store in accordance with National Fire Protection Association recommendations.
- Storage period : No applicable data available.
- Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering controls : Use of non-sparking and explosion-proof equipment may be necessary



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depending on type of operation. Use only in area provided with appropriate exhaust ventilation. Use appropriate workplace ventilation to remove fumes that may be released on heating.

Personal protective equipment

- Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
- Hand protection : Additional protection: Impervious gloves
- Eye protection : Wear safety glasses or coverall chemical splash goggles.
- Skin and body protection : Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots.

Exposure Guidelines

Exposure Limit Values

Halogenated borate

TLV	(ACGIH)	6 mg/m ³	STEL Inhalable fraction.
TLV	(ACGIH)	2 mg/m ³	TWA Inhalable fraction.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Physical state : liquid
- Form : liquid
- Color : colourless, to, yellow

Odor : No applicable data available.

Odor threshold : No applicable data available.

pH : No applicable data available.

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Melting point/range	: No applicable data available.
Boiling point/boiling range	: No applicable data available.
Flash point	: 48.3 °C
Evaporation rate	: No applicable data available.
Flammability (solid, gas)	: No applicable data available.
Upper explosion limit	: No applicable data available.
Lower explosion limit	: No applicable data available.
Vapour Pressure	: No applicable data available.
Vapour density	: No applicable data available.
Specific gravity (Relative density)	: No applicable data available.
Water solubility	: No applicable data available.
Solubility(ies)	: No applicable data available.
Partition coefficient: n-octanol/water	: No applicable data available.
Auto-ignition temperature	: No applicable data available.
Decomposition temperature	: > 200 °C Thermal decomposition can lead to release of irritating gases and vapours.
Viscosity, kinematic	: No applicable data available.
Viscosity, dynamic	: No applicable data available.

SECTION 10. STABILITY AND REACTIVITY

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Reactivity	:	Highly flammable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No applicable data available.
Conditions to avoid	:	To avoid thermal decomposition, do not overheat. Take measures to prevent the build up of electrostatic charge. Take precautionary measures against static discharges.
Incompatible materials	:	No applicable data available.
Hazardous decomposition products	:	Incompletely burned carbon products Other hazardous decomposition products may be formed.

SECTION 11. TOXICOLOGICAL INFORMATION

1-Methoxy-2-propyl acetate	
Inhalation 4 h LC50	: > 35.2 mg/l , Rat
Dermal LD50	: > 5,000 mg/kg , Rabbit
Oral LD50	: 8,532 mg/kg , Rat
Skin irritation	: No skin irritation, Rabbit
Eye irritation	: No eye irritation, Rabbit
Skin sensitization	: Does not cause skin sensitisation., Guinea pig
Repeated dose toxicity	: Inhalation Rat - 24 Months vapour NOAEL: 1.1 mg/l LOAEL: 3.69 mg/l Method: see user defined free text No toxicologically significant effects were found.
Carcinogenicity	: Not classifiable as a human carcinogen.

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Animal testing did not show any carcinogenic effects.
Information given is based on data obtained from similar substances.

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Reproductive toxicity : No toxicity to reproduction
Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.
Information given is based on data obtained from similar substances.

Teratogenicity : Evidence suggests the substance is not a developmental toxin in animals.
Information given is based on data obtained from similar substances.

Thioxanthone Compounds

Dermal LD50 : > 2,000 mg/kg , Rabbit
Information given is based on data obtained from similar substances.

Oral LD50 : > 5,000 mg/kg , Rat
Information given is based on data obtained from similar substances.

Skin irritation : No skin irritation, Rabbit
Information given is based on data obtained from similar substances.

Eye irritation : No eye irritation, Rabbit
Information given is based on data obtained from similar substances.

Skin sensitization : May cause sensitisation by skin contact., Guinea pig
Information given is based on data obtained from similar substances.

Halogenated borate

Skin irritation : No skin irritation, Rabbit

Eye irritation : No eye irritation, Rabbit

Skin sensitization : Does not cause skin sensitisation., Guinea pig

Carcinogenicity : no data available

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Mutagenicity : no data available

Reproductive toxicity : no data available

Teratogenicity : no data available

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 12. ECOLOGICAL INFORMATION**Aquatic Toxicity****1-Methoxy-2-propyl acetate**

- | | | |
|------------|---|--|
| 96 h LC50 | : | Oncorhynchus mykiss (rainbow trout) > 100 mg/l OECD Test Guideline 203 |
| 96 h ErC50 | : | Pseudokirchneriella subcapitata (green algae) > 1,000 mg/l OECD Test Guideline 201 |
| 96 h NOEC | : | Pseudokirchneriella subcapitata (green algae) > 1,000 mg/l OECD Test Guideline 201 |
| 48 h EC50 | : | Daphnia magna (Water flea) > 500 mg/l |
| 14 d | : | NOEC Oryzias latipes (Orange-red killifish) 47.5 mg/l OECD Test Guideline 204 |
| 21 d | : | NOEC Daphnia magna (Water flea) > 100 mg/l OECD Test Guideline 211 |

Halogenated borate

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96 h LC50	:	Danio rerio (zebra fish) 14 mg/l
72 h ErC50	:	Pseudokirchneriella subcapitata (green algae) > 0.55 mg/l
72 h NOEC	:	Pseudokirchneriella subcapitata (green algae) > 0.55 mg/l
48 h EC50	:	Daphnia magna (Water flea) 0.2 mg/l

Environmental Fate

Halogenated borate	:	
Biodegradability	:	Not biodegradable 0 %

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product	:	In accordance with local and national regulations.
Contaminated packaging	:	No applicable data available.

SECTION 14. TRANSPORT INFORMATION

DOT	UN number	:	3271
	Proper shipping name	:	Ethers, n.o.s. (1-Methoxy-2-propyl acetate)
	Class	:	3
	Packing group	:	III
	Labelling No.	:	3
IATA_C	UN number	:	3271
	Proper shipping name	:	Ethers, n.o.s. (1-Methoxy-2-propyl acetate)
	Class	:	3
	Packing group	:	III
	Labelling No.	:	3
IMDG	UN number	:	3271

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Proper shipping name	: ETHERS, N.O.S. (1-Methoxy-2-propyl acetate)
Class	: 3
Packing group	: III
Labelling No.	: 3

SECTION 15. REGULATORY INFORMATION

SARA 313 Regulated Chemical(s) : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

NJ Right to Know Regulated Chemical(s) : Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Halogenated borate

California Prop. 65 : Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known

SECTION 16. OTHER INFORMATION

Chemours™ and the Chemours Logo are trademarks of The Chemours Company.

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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.

Significant change from previous version is denoted with a double bar.



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