900015819



SAFETY DATA SHEET

Version 1 Issuing Date: 01-Dec-2015

Emerald® Premium DPO

1. PRODUCT AND COMPANY IDENTIFICATION

Emerald® Premium DPO **Product Name**

900015819 **Product code**

Fountain Solution for Heatset Web. **Product Use**

Manufactured by

FUJIFILM Hunt Chemicals U.S.A., Inc.

40 Boroline Road

Allendale, NJ 07401-0320

Distributed in Canada by

FUJIFILM Canada, Inc.

600 Suffolk Ct.

Mississauga, Ontario L5R 4G4 Distributed Internationally by

FUJIFILM Hunt Chemicals U.S.A., Inc.

40 Boroline Road

Allendale, NJ 07401-0320

SDSs are available at the following http://www.fujifilmusa.com/msds

website(s):

Distributed in the USA by

Graphic Systems Division

200 Summit Lake Drive Valhalla, NY 10595-1356

FUJIFILM North American Corporation,

U.S.A: 800-473-3854 Canada: 800-263-5018 **Company Phone Number**

Emergency Telephone

Transport-CHEMTREC Inside NA: 800-424-9300 Transport CHEMTREC Outside NA: 703-527-3887 Transport-CANUTEC Inside Canada: 613-996-6666 Medical Emergency (24 hour): 877-935-7387

E-mail EHS@fujifilm.com

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

GHS Label elements, including precautionary statements

Warning

Hazard Statements

May cause damage to organs through prolonged or repeated exposure Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction



Precautionary Statements

Prevention

Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Contaminated work clothing should not be allowed out of the workplace

Response

Get medical advice/attention if you feel unwell
If exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

Storage

Not applicable

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not classified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
DIETHYLENE GLYCOL BUTYL ETHER	112-34-5	5-10%
GLYCERINE	56-81-5	3-7%
ETHYLENE GLYCOL	107-21-1	3-7%
SODIUM XYLENE SULFONATE	1300-72-7	1-5%
AMMONIUM NITRATE	6484-52-2	1-5%
MALIC ACID	6915-15-7	1-5%
ACETYLENIC DIOL	126-86-3	0.1-1%

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First aid measures for different exposure routes

General advice If symptoms persist, call a physician.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/

attention.

Skin contact IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get

medical advice/attention.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Ingestion If swallowed, do not induce vomiting - seek medical advice.

Protection of First-aidersUse personal protective equipment.

Most important symptoms/effects, acute and delayed

May cause redness, itching, and pain. May cause allergic skin reaction.

Indication of immediate medical attention and special treatment needed, if necessary

May cause sensitization of susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None known.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. May cause sensitization by skin contact.

Hazardous Combustion Products

Carbon oxides. Sulfur oxides. Nitrogen oxides (NOx). Ammonia.

Explosion Data

Sensitivity to Mechanical Impact none

Sensitivity to Static Discharge none

Protective Equipment and Precautions for Firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid contact with the skin and the eyes. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Use personal protective equipment. Soak up with inert absorbent material. Pick up and

transfer to properly labeled containers. Clean contaminated surface thoroughly. After

cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear personal protective equipment. Ensure adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA - Workplace Environmental Exposure Levels (WEELs) - TWAs
DIETHYLENE GLYCOL BUTYL ETHER	TWA: 10 ppm inhalable fraction and vapor			
GLYCERINE		TWA: 15 mg/m³ mist, total particulate TWA: 5 mg/m³ mist, respirable fraction (vacated) TWA: 10 mg/m³ mist, total particulate (vacated) TWA: 5 mg/m³ mist, respirable fraction		
ETHYLENE GLYCOL	Ceiling: 100 mg/m³ aerosol only	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m³		

Exposure controls

Engineering Measures Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly fitting safety goggles. 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. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Take off contaminated clothing and wash before

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear, Green Mild Odor **Odor Threshold** Not available Physical State @20°C Liquid

4.30

1.09 **Specific Gravity** Flash point

> 201 °F / > 94 °C **Decomposition temperature** Not available

Melting point / melting range

Not available Flammability Limit in Air Not available

Molecular Weight Autoignition temperature Boiling point / boiling range

Freezing Point

Not available > 212 °F / > 100 °C

Not available

Not available

Oxidizing Properties Not available Solubility completely soluble **Evaporation rate** Not available Vapor density Not available

VOC (lb/gal) 1.21 Dynamic viscosity Not available **Explosive Properties** Not available Partition coefficient Not available Vapor Pressure Not available **Density** Not available VOC (g/l) 145.14

10. STABILITY AND REACTIVITY

Reactivity

Stable under recommended storage conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Excessive heat. Freezing. This product contains an ammonia compound. Do not allow this solution to come in contact with household or industrial bleaches (Sodium Hypochlorite). Mixing of these chemicals can result in the release of hazardous or toxic gases. Inhalation of these gases may cause severe respiratory irritation.

Incompatible Materials

Strong oxidizing agents. Strong acids. Strong bases. Sodium hypochlorite.

Hazardous Decomposition Products

None known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Acute toxicity

Inhalation Inhalation of vapors in high concentration may cause irritation of respiratory system.

Eyes Irritating to eyes. May cause redness and tearing.

Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with Skin

susceptible persons.

Ingestion may cause stomach discomfort. Ingestion

Component Information

Chemical Name	Oral LD50	Dermal LD50	LC50 (lethal concentration)
DIETHYLENE GLYCOL BUTYL ETHER	= 3384 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	
GLYCERINE	= 12600 mg/kg (Rat)	21900 mg/kg (Rat)	> 570 mg/m³ (Rat) 1 h
ETHYLENE GLYCOL	4000 - 10200 mg/kg (Rat)	= 9530 μL/kg(Rabbit)= 10600 mg/kg(Rat)	-
SODIUM XYLENE SULFONATE	= 1000 mg/kg (Rat)		
AMMONIUM NITRATE	= 2217 mg/kg (Rat)		> 88.8 mg/L (Rat) 4 h

Information on toxicological effects

No information available.

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

Irritation Irritating to eyes. Irritating to skin.

Corrosivity No information available.

Sensitization May cause sensitization by skin contact.

Mutagenic Effects No information available. Reproductive Toxicity No information available.

Carcinogenicity None known.

STOT - single exposure No information available.

STOT - repeated exposure May cause damage to kidneys through prolonged or repeated exposure if swallowed.

Target Organ Effects Central nervous system (CNS), Eyes, Kidney, Respiratory system, Skin.

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 6290 mg/kg ATEmix (dermal) 30553 mg/kg

ATE: Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity

microorganisms	other aquatic invertebrates
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	organionio

Persistence and degradability

No information available.

Bioaccumulation

Chemical Name	Octanol Water Partition Coefficient (log pow)
GLYCERINE	-1.76
ETHYLENE GLYCOL	-1.93
AMMONIUM NITRATE	-3.1

Mobility

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Dispose of in accordance with local regulations.

Contaminated packaging

Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

IMDG Not regulated

ADR/RID Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Yes
DSL/NDSL	Yes
PICCS	No
EINECS/ELINCS	No
ENCS	No
IECSC	No
KECL	No
AICS	No

^{*}Yes - All component(s) of this product are included or are exempt from listing on the inventory.

^{*}No - Indicates the component(s) of this product are either not listed or have not been determined to be listed on the inventory.

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

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

TSCA Sections 4, 5 and 12(b)

This product does not contain any chemicals regulated by TSCA Sections 4, 5 or 12(b).

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	SARA 313 - Threshold Values %	Weight-%
DIETHYLENE GLYCOL BUTYL ETHER	112-34-5	1.0	5-10%
ETHYLENE GLYCOL	107-21-1	1.0	3-7%
AMMONIUM NITRATE	6484-52-2	1.0	1-5%

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
ETHYLENE GLYCOL	5000		RQ 5000 lb final RQ RQ 2270 kg final RQ

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Rhode Island **Chemical Name** Massachusetts **New Jersey** Pennsylvania Illinois DIETHYLENE GLYCOL Х **BUTYL ETHER** GLYCERINE Х Χ Χ Χ ETHYLENE GLYCOL X X Χ Χ Χ AMMONIUM NITRATE

International Regulations

Canada - NDSL

Chemical Name	NDSL
METHYLENE DIUREA	X
68611-64-3	

Mexico - Grade Slight risk, Grade 1

Mexico - Carcinogen Status and Exposure Limits

Chemical Name	Carcinogen Status	Exposure Limits
GLYCERINE		Mexico: TWA 10 mg/m ³
ETHYLENE GLYCOL		Mexico: Ceiling 100 mg/m ³

Other Regulations

No information available

16. OTHER INFORMATION						

NFPA Health Hazard 2 Flammability 1 Instability 0 Physical and chemical

hazards -

Health Hazard 2 **HMIS** Flammability 1 Physical Hazard 0 Personal protection B

Prepared By FUJIFILM Environment, Health and Safety, phone: 800-473-3854

Revision Date 01-Dec-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.

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