900000895



# SAFETY DATA SHEET

Issuing Date: 01-Dec-2015 Version 1

# **Emerald® JR**

### 1. PRODUCT AND COMPANY IDENTIFICATION

Emerald® JR **Product Name** 900000895 **Product code** 

Acid Fountain Solution for Sheet Fed Presses. **Product Use** 

**Manufactured by** 

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

40 Boroline Road Allendale, NJ 07401-0320 FUJIFILM North American Corporation, Graphic Systems Division 200 Summit Lake Drive Valhalla, NY 10595-1356

Distributed in the USA by

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):

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

Serious eye damage/eye irritation

Category 2

GHS Label elements, including precautionary statements

Warning

**Hazard Statements** 

Causes serious eye irritation



#### **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear eye/face protection

### Response

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

#### Storage

Not applicable

#### **Disposal**

Not applicable

#### Hazards not otherwise classified (HNOC)

Not classified

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	5-10%
AMMONIUM NITRATE	6484-52-2	1-5%
MALIC ACID	6915-15-7	1-5%

# 4. FIRST AID MEASURES

### First aid measures for different exposure routes

**General advice** Immediate medical attention is required. 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** Wash off immediately with plenty of water. If skin irritation persists, call a physician.

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

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

**Protection of First-aiders**Use personal protective equipment. Avoid contact with skin, eyes or clothing.

#### Most important symptoms/effects, acute and delayed

May cause redness, itching, and pain.

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

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.

#### **Hazardous Combustion Products**

Carbon 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 skin, eyes or clothing. 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 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

Revision Date 01-Dec-2015 900000895 - Emerald® JR

Wear personal protective equipment. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Ensure adequate ventilation.

### Conditions for safe storage, including any incompatibilities

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
ETHYLENE GLYCOL MONOBUTYL ETHER	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³	

#### **Exposure controls**

**Engineering Measures** Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Tightly fitting safety goggles.

Wear protective gloves/clothing. Skin and body protection

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

> > Not available

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

рH 3.8

**Specific Gravity** 1.07

Flash point **Decomposition temperature** Not available > 212 °F / > 100 °C

Melting point / melting range Not available

Flammability Limit in Air Not available

> 201 °F / > 94 °C Not available **Autoignition temperature** Boiling point / boiling range **Freezing Point** Not available

**Molecular Weight** 

Not available **Oxidizing Properties** Not available **Explosive Properties** Solubility completely soluble Partition coefficient Not available Not available **Vapor Pressure** Not available **Evaporation rate** Vapor density Not available **Density** Not available VOC (lb/gal) 1.71 VOC (g/l) 205.11

Dynamic viscosity Not available

## 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.

**Skin** Non-irritating during normal use.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	LC50 (lethal concentration)
ETHYLENE GLYCOL	= 470 mg/kg (Rat)	400 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
MONOBUTYL ETHER		2270 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.

CorrosivityNo information available.SensitizationNo information available.Mutagenic EffectsNo information available.Reproductive ToxicityNo information available.

Carcinogenicity None known.

STOT - single exposure No information available.

**STOT - repeated exposure**No information available.

Target Organ Effects Blood, Central nervous system (CNS), Eyes, Hematopoietic System, Kidney, Liver,

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)** 5507 mg/kg **ATEmix (dermal)** 13358 mg/kg mg/l

ATEmix (inhalation-dust/mist) 19.7 mg/l

ATE: Acute toxicity estimate

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Contains no substances known to be hazardous to the environment or that are not degradable in wastewater treatment plants.

#### Persistence and degradability

No information available.

#### Bioaccumulation

Chemical Name	Octanol Water Partition Coefficient (log pow)
ETHYLENE GLYCOL MONOBUTYL ETHER	0.81
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	No
PICCS	No
EINECS/ELINCS	No
ENCS	No
IECSC	No
KECL	No
AICS	No

<sup>\*</sup>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	Weight-%
•			

		Values %	
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	1.0	5-10%
AMMONIUM NITRATE	6484-52-2	1.0	1-5%

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	no
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, 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

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### **U.S. State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
ETHYLENE GLYCOL	X	X	Х	Χ	X
MONOBUTYL ETHER					
AMMONIUM NITRATE	X	Х	Х	Х	Х

### International Regulations

### Canada - NDSL

This product does not contain any NDSL chemicals.

### Mexico - Grade

Slight risk, Grade 1

#### **Mexico - Carcinogen Status and Exposure Limits**

	Chemical Name	Carcinogen Status	Exposure Limits
Г	ETHYLENE GLYCOL MONOBUTYL ETHER		Mexico: TWA 26 ppm
			Mexico: TWA 120 mg/m <sup>3</sup>
			Mexico: STEL 75 ppm
			Mexico: STEL 360 mg/m <sup>3</sup>

# **Other Regulations**

No information available

# **16. OTHER INFORMATION**

NFPA	Health Hazard 2	Flammability 1	Instability 0	Physical and chemical
HMIS	Health Hazard 2	Flammability 1	Physical Hazard 0	hazards - 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.

end