# SAFETY DATA SHEET

Issuing Date: 01-Apr-2015 Version 1

# **ARS-JP**

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name ARS-JP

Product code 2873

Product Use Alcohol Replacement Additive for Offset Printing.

Manufactured by

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

40 Boroline Road Allendale, NJ 07401-0320

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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

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

Distributed in the USA by

**Graphic Systems Division** 

200 Summit Lake Drive Valhalla, NY 10595-1356

FUJIFILM North American Corporation,

website(s):

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

**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

Acute Toxicity - Oral	Category 4
Acute Toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1B
Flammable liquids	Category 4

# GHS Label elements, including precautionary statements

#### Warning

#### **Hazard Statements**

Harmful if swallowed
Harmful in contact with skin
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Combustible liquid



#### **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Contaminated work clothing should not be allowed out of the workplace Keep away from heat/sparks/open flames/hot surfaces. - No smoking

#### 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

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation or rash occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

#### Storage

Store in a well-ventilated place. Keep cool

#### Disposa

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-%
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	50-70%
ACETYLENIC DIOL	126-86-3	1-5%

#### 4. FIRST AID MEASURES

### First aid measures for different exposure routes

General advice Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

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 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON

CENTER or doctor/ physician.

**Protection of First-aiders**Use 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

Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

# Unsuitable Extinguishing Media

None known.

# Specific hazards arising from the chemical

Combustible liquid. May be ignited by heat, sparks or flames. May cause sensitization by skin contact.

### **Explosion Data**

Sensitivity to Mechanical Impact none

Sensitivity to Static Discharge Yes

# 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

Avoid contact with skin, eyes or clothing. Use personal protective equipment. Remove all sources of ignition. 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 Cover liquid spill with sand, earth or other noncombustible absorbent material. Pick up and

transfer to properly labeled containers. Take precautionary measures against static discharges. Use personal protective equipment. Pay attention to flashback. Use only non-sparking tools. Clean contaminated surface thoroughly. After cleaning, flush away

traces with water.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin, eyes or clothing. Wear personal protective equipment. Avoid breathing vapors or mists. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Ensure adequate ventilation.

### Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Keep in properly labeled containers. Keep containers tightly closed in a dry, cool and well-ventilated place.

# 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.

**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.

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#### **General Hygiene Considerations**

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

Not available

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Freezing Point** 

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

6 - 8 рΗ

0.957 **Specific Gravity Molecular Weight** Not available Flash point > 176 °F / > 80 °C **Autoignition temperature** Not available **Decomposition temperature** Not available Boiling point / boiling range > 212 °F / > 100 °C

Melting point / melting range Not available

Flammability Limit in Air Not available

Not available Not available **Oxidizing Properties Explosive Property Details** Solubility completely soluble Partition coefficient Not available Not available Not available **Evaporation rate Vapor Pressure** Vapor density Not available Not available Density VOC (lb/gal) 6.51 VOC (g/l) 780.87

Not available **Dynamic viscosity** 

# 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

Heat, flames and sparks.

#### **Incompatible Materials**

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

#### **Hazardous Decomposition Products**

Carbon oxides.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

**Acute toxicity** 

Inhalation Harmful by 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 Harmful if swallowed. 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)	

#### Information on toxicological effects

No information available.

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

IrritationIrritating to eyes and skin.CorrosivityNo information available.

**Sensitization** May cause sensitization by skin contact.

Mutagenic EffectsNo information available.Reproductive ToxicityNo information available.

Carcinogenicity None known.

Chemical Name	ACGIH	IARC	NTP	OSHA
ETHYLENE GLYCOL	A3	Group 3		
MONOBUTYL ETHER		•		

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) 760 mg/kg
ATEmix (dermal) 1759 mg/kg
ATEmix (inhalation-vapor) 18 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	Octonol Water Partition Coefficient (log pow)
ETHYLENE GLYCOL MONOBUTYL ETHER	0.81

**Mobility** 

No information available.

### Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste Disposal Methods

Dispose of in accordance with federal, state, and 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** Yes **EINECS/ELINCS** No **ENCS** No **IECSC** Yes **KECL** Yes **AICS** Yes

<sup>\*</sup>Yes - All component(s) of this product are included or are exempt from listing on the inventory.

<sup>\*</sup>No - Indicates the component(s) of this product are either not listed or have not been determined to be listed on the inventory.

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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-%
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	1.0	50-70%

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
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	X	X	X
MONOBUTYL ETHER					

#### **International Regulations**

### Canada - NDSL

This product does not contain any NDSL chemicals.

#### Mexico - Grade

Moderate risk, Grade 2

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

Chemical Name	Carcinogen Status	Exposure Limits
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 2 Instability 0 Physical and chemical hazards HMIS Health Hazard 2 Flammability 2 Physical Hazard 0 Personal protection B

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

Revision Date 01-Apr-2015

Revision Note No information available Disclaimer The information provid

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