

## SAFETY DATA SHEET

Issuing Date: 25-Aug-2017

Version 5

### Universal Seaming Adhesive

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Universal Seaming Adhesive

**Product code** USA-1

**Product Use** Adhesives.

**Manufactured by**  
FUJIFILM Manufacturing U.S.A., Inc.  
20 West 14th Avenue  
North Kansas City, MO. 64116 USA

**Distributed in the USA by**  
Distributed and managed exclusively by Ryback and Ryback Incorporated  
[www.rybackandryback.com/universal-seaming-adhesive](http://www.rybackandryback.com/universal-seaming-adhesive)  
[sales@rybackandryback.com](mailto:sales@rybackandryback.com)

**Distributed Internationally by**  
Distributed and managed exclusively by Ryback and Ryback Incorporated  
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[sales@rybackandryback.com](mailto:sales@rybackandryback.com)

**SDSs are available at the following website(s):** <http://www.fujifilmusa.com/msds>

**Company Phone Number** Ryback & Ryback Inc.: 704.774.3274 or 800.564.8099

**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](mailto:EHS@fujifilm.com)

#### 2. HAZARDS IDENTIFICATION

**Classification**

Acute toxicity - Inhalation (Gases)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

**GHS Label elements, including precautionary statements**

Danger

**Hazard Statements**

Harmful if inhaled  
Causes skin irritation  
Causes serious eye irritation  
May damage fertility or the unborn child  
May cause respiratory irritation. May cause drowsiness or dizziness  
Highly flammable liquid and vapor

**Precautionary Statements****Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
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  
Wash face, hands and any exposed skin thoroughly after handling  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
Keep container tightly closed  
Ground/Bond container and receiving equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Use explosion-proof electrical (ventilation and lighting) equipment  
Keep cool

**Response**

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 skin irritation occurs: Get medical advice/attention  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower  
Wash contaminated clothing before reuse  
IF INHALED: Remove person to fresh air and keep comfortable for breathing  
In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish

**Storage**

Store locked up  
Store in a well-ventilated place. Keep container tightly closed

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not classified

**Other hazards**

May be harmful if swallowed

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
Methyl acetate	79-20-9	70-90%
N-methylpyrrolidone	872-50-4	15-30%

#### 4. FIRST AID MEASURES

##### First aid measures for different exposure routes

<b>General advice</b>	If symptoms persist, call a physician.
<b>Eye contact</b>	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.
<b>Skin contact</b>	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Do not remove clothing if adhering to skin. Cool melted product on skin with plenty of water. Do not remove solidified product. Consult a physician if necessary.
<b>Inhalation</b>	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.
<b>Ingestion</b>	If swallowed, do not induce vomiting - seek medical advice.

##### 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

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

##### Unsuitable Extinguishing Media

None known.

##### Specific hazards arising from the chemical

Flammable. Will be easily ignited by heat, sparks or flames.

##### 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**

Use personal protective equipment. Avoid contact with skin, eyes or clothing. 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 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. Cover liquid spill with sand, earth or other noncombustible absorbent material. Take precautionary measures against static discharges. Pay attention to flashback. Use only non-sparking tools. 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. Avoid contact with skin, eyes or clothing. 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. Avoid exposure during pregnancy.

**Conditions for safe storage, including any incompatibilities**

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA - Workplace Environmental Exposure Levels (WEELs) - TWAs
Methyl acetate	STEL: 250 ppm TWA: 200 ppm	TWA: 200 ppm TWA: 610 mg/m <sup>3</sup> (vacated) TWA: 200 ppm (vacated) TWA: 610 mg/m <sup>3</sup> (vacated) STEL: 250 ppm (vacated) STEL: 760 mg/m <sup>3</sup>	IDLH: 3100 ppm TWA: 200 ppm TWA: 610 mg/m <sup>3</sup> STEL: 250 ppm STEL: 760 mg/m <sup>3</sup>	
N-methylpyrrolidone				10 ppm TWA

**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.

**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

<b>Appearance</b>	Clear, Colorless	<b>Odor</b>	Mild amine
<b>Odor Threshold</b>	Not available	<b>Physical State @20°C</b>	Liquid
<b>pH</b>	No data available	<b>Molecular Weight</b>	Not available
<b>Specific Gravity</b>	0.953	<b>Autoignition temperature</b>	Not available
<b>Flash point</b>	8.6 °F / -13 °C	<b>Boiling point / boiling range</b>	132 °F / 56 °C
<b>Decomposition temperature</b>	Not available	<b>Freezing Point</b>	Not available
<b>Melting point / melting range</b>	Not available		
<b>Flammability Limit in Air</b>	Not available		
<b>Oxidizing Properties</b>	Not available	<b>Explosive Properties</b>	Not available
<b>Solubility</b>	Soluble in water	<b>Partition coefficient</b>	Not available
<b>Evaporation rate</b>	Not available	<b>Vapor Pressure</b>	171 mmHg @ 20 °C
<b>Vapor density</b>	Not available	<b>Density</b>	Not available
<b>Weight per Gallon (lbs)</b>	7.92	<b>VOC (lb/gal)</b>	1.584
<b>VOC (g/l)</b>	190	<b>Dynamic viscosity</b>	Not available
<b>VOC Content California</b>			
<b>VOC Content of Material</b>		190 grams per liter	

## 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.

### Hazardous Decomposition Products

None known.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information****Acute toxicity****Inhalation**

Harmful by inhalation. May cause irritation of respiratory tract. May cause drowsiness or dizziness. May be harmful if inhaled.

**Eyes**

Irritating to eyes.

**Skin**

Irritating to skin. Will bond to skin.

**Ingestion**

Ingestion may cause stomach discomfort.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	LC50 (lethal concentration)
Methyl acetate	> 5 g/kg ( Rat )	> 5 g/kg ( Rabbit )	= 16000 ppm ( Rat ) 4 h
N-methylpyrrolidone	= 3914 mg/kg ( Rat )	= 8 g/kg ( Rabbit )	> 5.1 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**

Non-irritating during normal use.

**Corrosivity**

No information available.

**Sensitization**

No information available.

**Mutagenic Effects**

No information available.

**Reproductive Toxicity**

Product is or contains a chemical which is a known or suspected reproductive hazard.

**Carcinogenicity**

None known.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Chronic toxicity**

Contains a known or suspected reproductive toxin.

**Target Organ Effects**

Eyes, Skin, Reproductive system, Central nervous system (CNS), Respiratory system.

**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)	4741 mg/kg
ATEmix (dermal)	5410 mg/kg
ATEmix (inhalation-gas)	3500 mg/l
ATEmix (inhalation-dust/mist)	15.5 mg/l

ATE: Acute toxicity estimate

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Chemical Name	Algae toxicity	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Methyl acetate		Pimephales promelas: 295 -		

		348 mg/L at 96 h		
N-methylpyrrolidone		Pimephales promelas: 1072 mg/L at 96 h		

**Persistence and degradability**

No information available.

**Bioaccumulation**

Chemical Name	Octanol Water Partition Coefficient (log pow)
Methyl acetate	0.18
N-methylpyrrolidone	-0.46

**Mobility**

No information available.

**Other adverse effects**

No information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods**

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). Dispose of in accordance with all applicable national environmental laws and regulations. Dispose of in accordance with federal, state, and local regulations.

**Contaminated packaging**

Do not re-use empty containers.

**US EPA Waste Number**

D001

<b>14. TRANSPORT INFORMATION</b>
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**DOT**

<b>Proper Shipping Name</b>	Methyl acetate solution
<b>UN/ID No</b>	UN1231
<b>Hazard Class</b>	3
<b>Packing Group</b>	II
<b>Description</b>	UN1231, Methyl acetate solution, 3, II
<b>Emergency Response Guide Number</b>	129
<b>Packaging Exceptions</b>	150
<b>Non-bulk Packaging</b>	202
<b>Bulk Packaging</b>	242

**TDG**

<b>Proper Shipping Name</b>	Methyl acetate solution
<b>UN/ID No</b>	UN1231
<b>Hazard Class</b>	3
<b>Packing Group</b>	II
<b>Description</b>	UN1231, Methyl acetate solution, 3, II

**MEX**

<b>Proper Shipping Name</b>	Methyl acetate solution
<b>UN/ID No</b>	UN1231
<b>Hazard Class</b>	3
<b>Packing Group</b>	II
<b>Description</b>	UN1231, Methyl acetate solution, 3, II

**ICAO**

<b>Proper Shipping Name</b>	Methyl acetate solution
<b>UN/ID No</b>	UN1231
<b>Hazard Class</b>	3
<b>Packing Group</b>	II
<b>Description</b>	UN1231, Methyl acetate solution, 3, II

**IATA**

<b>Proper Shipping Name</b>	Methyl acetate solution
<b>UN/ID No</b>	UN1231
<b>Hazard Class</b>	3
<b>Packing Group</b>	II
<b>Description</b>	UN1231, Methyl acetate solution, 3, II

**IMDG**

<b>Proper Shipping Name</b>	Methyl acetate solution
<b>UN/ID No</b>	UN1231
<b>Hazard Class</b>	3
<b>Packing Group</b>	II
<b>EmS-No</b>	F-E, S-D
<b>Description</b>	UN1231, Methyl acetate solution, 3, II, (-13°C c.c.)

**ADR/RID**

<b>Proper Shipping Name</b>	Methyl acetate solution
<b>UN/ID No</b>	UN1231
<b>Hazard Class</b>	3
<b>Packing Group</b>	II
<b>Classification Code</b>	F1



**Description** UN1231, Methyl acetate solution, 3, II  
**ADR/RID-Labels** 3

**ADN**

**Description** UN1231, Methyl acetate solution, 3, II

**15. REGULATORY INFORMATION****International Inventories**

**TSCA** Yes  
**DSL/NDSL** Yes  
**PICCS** Yes  
**EINECS/ELINCS** Yes  
**ENCS** Yes  
**IECSC** Yes  
**KECL** Yes  
**AICS** Yes

**\*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-%
N-methylpyrrolidone	872-50-4	1.0	15-30%

**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 contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
N-methylpyrrolidone	Developmental

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

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methyl acetate	X	X	X		
N-methylpyrrolidone	X	X	X		

### International Regulations

#### Canada - NDSL

This product does not contain any NDSL chemicals.

#### Mexico - Grade

Serious risk, Grade 3

#### Mexico - Carcinogen Status and Exposure Limits

Chemical Name	Carcinogen Status	Exposure Limits
Methyl acetate		Mexico: TWA 200 ppm Mexico: TWA 610 mg/m <sup>3</sup> Mexico: STEL 250 ppm Mexico: STEL 760 mg/m <sup>3</sup>

### Other Regulations

No information available

<b>CPSIA</b>	Formulated to comply
<b>CONEG</b>	Formulated to comply
<b>ASTM F-963</b>	Formulated to comply
<b>CHPA</b>	Formulated to comply
<b>RoHS</b>	Formulated to comply
<b>REACH/SVHC</b>	Does not comply
<b>EN-71</b>	Formulated to comply

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazard 2</b>	<b>Flammability 3</b>	<b>Instability 0</b>	<b>Physical and chemical hazards -</b>
<b>HMIS</b>	<b>Health Hazard 2*</b>	<b>Flammability 3</b>	<b>Physical Hazard 0</b>	<b>Personal protection B</b>

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

**Revision Date** 25-Aug-2017

**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**