

# SAFETY DATA SHEET

Issuing Date: 19-Nov-2019

Version 1

## V-65

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** V-65

**Product code** 929-10235,928-10235,921-10365,927-10415,924-10425,926-10365

**Product Use** Chemical intermediate. Polymerization initiator.

**Supplier Address** FUJIFILM Wako Chemicals U.S.A. Corporation  
1600 Bellwood Road  
Richmond, VA 23237

**Manufactured by** FUJIFILM Wako Pure Chemical Corporation  
1-2 Doshomachi 3-Chome  
Chuo-ku Osaka 540-8605, Japan

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

**Company Phone Number** U.S.A: 804-714-1900

**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 sensitization	Category 1
Self-reactive substances and mixtures	Type D

**GHS Label elements, including precautionary statements**

Danger

**Hazard Statements**

May cause an allergic skin reaction  
Heating may cause a fire



### Precautionary Statements

#### **Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray  
Contaminated work clothing must not be allowed out of the workplace  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
Keep/Store away from clothing/ other combustible materials  
Keep only in original container  
Wear protective gloves/eye protection/face protection

#### **Response**

IF ON SKIN: Wash with plenty of water and soap  
If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse  
In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish

#### **Storage**

Store in a well-ventilated place. Keep cool  
Store at temperatures not exceeding 10 °C/ 50 °F  
Store away from other materials

#### **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-%
2,2'-Azobis(2,4-dimethylvaleronitrile)	4419-11-8	>98%

### 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>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin contact</b>	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.

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

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

May cause allergic skin reaction. Product dust may be irritating to eyes, skin and respiratory system.

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

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

**Unsuitable Extinguishing Media**

None known.

**Specific hazards arising from the chemical**

May cause sensitization by skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Explosion risk in case of fire.

**Hazardous Combustion Products**

Carbon oxides. Nitrogen oxides (NO<sub>x</sub>). Hydrogen cyanide.

**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. Avoid dust formation.

**Methods for cleaning up** Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Clean contaminated surface thoroughly. Pick up and transfer to properly labeled containers. 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. Do not breathe vapors/dust. Ensure adequate ventilation. Avoid dust formation in confined areas. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

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

Keep containers in cool areas out of direct sunlight and away from combustibles. Keep in properly labeled containers. Keep at temperatures below 10 °C / 50 °F.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**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>	White	<b>Odor</b>	Characteristic
<b>Odor Threshold</b>	Not available	<b>Physical State @20°C</b>	Solid, Crystalline Powder
<b>pH</b>	Not available	<b>Molecular Weight</b>	Not available
<b>Specific Gravity</b>	Not available	<b>Autoignition temperature</b>	Not available
<b>Flash point</b>	Not available	<b>Boiling point / boiling range</b>	Not available
<b>Decomposition temperature</b>	Not available	<b>Freezing Point</b>	Not available
<b>Melting point / melting range</b>	113 - 158 °F / 45 - 70 °C		
<b>Flammability Limit in Air</b>			
<b>Upper</b>	Not available		
<b>Lower</b>	25mg/L(dust explosion)		
<b>Oxidizing Properties</b>	Not available	<b>Explosive Properties</b>	Not available
<b>Solubility</b>	Insoluble in water. Soluble in benzene, acetone, ether, N,N-dimethylformamide, toluene, methanol.	<b>Partition coefficient</b>	Not available
<b>Evaporation rate</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Vapor density</b>	Not available	<b>Density</b>	Not available
<b>VOC (lb/gal)</b>	Not available	<b>VOC (g/l)</b>	Not available
<b>Dynamic viscosity</b>	Not available		

## 10. STABILITY AND REACTIVITY

### Reactivity

Becomes self-reactive under conditions of increase in temperature.

SADT (°C): 30

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Dust can form an explosive mixture in air. Heating may cause an explosion.

### Conditions to Avoid

Heat, flames and sparks. This material as supplied must be carefully evaluated as a combustible dust hazard. Avoid all dusty conditions such as sweeping or careless handling of this material. This material should not be allowed to accumulate on piping, equipment, floors, ceiling components or surfaces of any kind. Combustible dust can be susceptible to human static discharge as an ignition source if proper dispersion and concentration are present. Use only approved methods to gather or clean this material.

### Incompatible Materials

Strong oxidizing agents.

### Hazardous Decomposition Products

See Section 5 for more information.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

#### **Acute toxicity**

##### **Inhalation**

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

##### **Eyes**

Dust contact with the eyes can lead to mechanical irritation.

##### **Skin**

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

##### **Ingestion**

Ingestion may cause stomach discomfort.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	LC50 (lethal concentration)
2,2'-Azobis(2,4-dimethylvaleronitrile)	>6000 mg/kg (mouse)		

#### **OECD Test No. 406: Skin Sensitization**

Sensitizing.

### Information on toxicological effects

No information available.

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

<b>Irritation</b>	Non-irritating during normal use.
<b>Corrosivity</b>	No information available.
<b>Sensitization</b>	May cause sensitization by skin contact. On basis of test data.
<b>Mutagenic Effects</b>	No information available.
<b>Reproductive Toxicity</b>	No information available.
<b>Carcinogenicity</b>	None known.

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

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

**Target Organ Effects** Skin.

**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information**

**ATEmix (oral)** >6000 mg/kg

**ATE: Acute toxicity estimate**

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Based on available data, the classification criteria are not met.

**Persistence and degradability**

No information available.

**Bioaccumulation**

No bioaccumulation potential.

**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**

<b>Proper Shipping Name</b>	Self-reactive solid type D, temperature controlled
<b>UN/ID No</b>	UN3236
<b>Hazard Class</b>	4.1
<b>Description</b>	UN3236, Self-reactive solid type D, temperature controlled (2,2'-Azobis(2,4-dimethylvaleronitrile)), 4.1
<b>Emergency Response Guide Number</b>	150
<b>Packaging Exceptions</b>	None
<b>Non-bulk Packaging</b>	224
<b>Bulk Packaging</b>	None

**TDG**

**Description** Forbidden.

**MEX**

<b>Proper Shipping Name</b>	Self-reactive solid type D, temperature controlled
<b>UN/ID No</b>	UN3236
<b>Hazard Class</b>	4.1
<b>Description</b>	UN3236, Self-reactive solid type D, temperature controlled (2,2'-Azobis(2,4-dimethylvaleronitrile)), 4.1

**ICAO**

**Description** Forbidden BY PASSENGER AIR

**IATA**

**Description** Forbidden BY PASSENGER AIR

**IMDG**

<b>Proper Shipping Name</b>	Self-reactive solid type D, temperature controlled
<b>UN/ID No</b>	UN3236
<b>Hazard Class</b>	4.1
<b>EmS-No</b>	F-F, S-K
<b>Description</b>	UN3236, Self-reactive solid type D, temperature controlled (2,2'-Azobis(2,4-dimethylvaleronitrile)), 4.1

**ADR/RID**

<b>Proper Shipping Name</b>	Self-reactive solid type D, temperature controlled
<b>UN/ID No</b>	UN3236
<b>Hazard Class</b>	4.1
<b>Classification Code</b>	SR2
<b>Description</b>	UN3236, Self-reactive solid type D, temperature controlled (2,2'-Azobis(2,4-dimethylvaleronitrile)), 4.1, (D)
<b>ADR/RID-Labels</b>	4.1

**ADN**

<b>Proper Shipping Name</b>	Self-reactive solid type D, temperature controlled
<b>UN/ID No</b>	UN3236
<b>Hazard Class</b>	4.1
<b>Classification Code</b>	SR2
<b>Description</b>	UN3236, Self-reactive solid type D, temperature controlled

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	(2,2'-Azobis(2,4-dimethylvaleronitrile)), 4.1
<b>Hazard Labels</b>	4.1
<b>Limited quantity</b>	0
<b>Equipment Requirements</b>	PP

## 15. REGULATORY INFORMATION

### International Inventories

<b>TSCA</b>	Yes
<b>DSL/NDSL</b>	Yes
<b>PICCS</b>	Yes
<b>EINECS/ELINCS</b>	Yes
<b>ENCS</b>	Yes
<b>IECSC</b>	Yes
<b>KECL</b>	Yes
<b>AICS</b>	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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Classification is shown in section 2 of this SDS

#### 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**

This product does not contain any substances regulated by state right-to-know regulations.

**International Regulations**

**Canada - NDSL**

This product does not contain any NDSL chemicals.

**Mexico - Grade**

No information available

**Mexico - Carcinogen Status and Exposure Limits**

No information available

**Other Regulations**

No information available

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazard 2</b>	<b>Flammability 1</b>	<b>Instability 1</b>	<b>Physical and chemical hazards -</b>
<b>HMIS</b>	<b>Health Hazard 2</b>	<b>Flammability 1</b>	<b>Physical Hazard 1</b>	<b>Personal protection B</b>

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

**Revision Date** 19-Nov-2019

**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**