



SAFETY DATA SHEET

Issuing Date: 19-Nov-2019

Version 1

V-65B

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name V-65B

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 CO₂, 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

General advice	If symptoms persist, call a physician.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
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.

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, CO₂, 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_x). 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

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

Irritation	Non-irritating during normal use.
Corrosivity	No information available.
Sensitization	May cause sensitization by skin contact. On basis of test data.
Mutagenic Effects	No information available.
Reproductive Toxicity	No information available.
Carcinogenicity	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

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

TDG

Description Forbidden.

MEX

Proper Shipping Name	Self-reactive solid type D, temperature controlled
UN/ID No	UN3236
Hazard Class	4.1
Description	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

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

ADR/RID

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

ADN

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

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

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 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

NFPA	Health Hazard 2	Flammability 1	Instability 1	Physical and chemical hazards -
HMIS	Health Hazard 2	Flammability 1	Physical Hazard 1	Personal protection 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