

SAFETY DATA SHEET

Issue Date 08-Jun-2026
Revision Number 2.06

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name 2,2'-Azobis(N-butyl-2-methylpropionamide)
Other means of identification
Product Code(s) 015-19282

Recommended use of the chemical and restrictions on use

Recommended Use For research use only.
Uses advised against Seek expert judgment when using for purposes other than those recommended.

Details of the supplier of the safety data sheet

Manufacturer Address	Distributor
FUJIFILM Wako Pure Chemical Corporation	FUJIFILM Biosciences Inc.
1-2, Doshomachi 3-Chome,	2501 Pullman Street, Suite 200
Chuo-ku Osaka 540-8605, Japan	Santa Ana, CA 92705, U.S.A.
Tel : +81-6-6203-3741	Tel : +1 949 261 7800
Fax: +81-6-6201-5964	Fax: +1 949 261 6522

2. HAZARDS IDENTIFICATION

GHS classification**Classification of the substance or mixture****Self-reactive substances and mixtures****Acute aquatic toxicity**Type F
Category 3**Pictograms****Signal word**

Warning

Hazard statementsH242 - Heating may cause a fire
H402 - Harmful to aquatic life**Precautionary statements-(Prevention)**

Avoid release to the environment Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Keep/Store away from clothing/ combustible materials Keep only in original container Wear protective gloves/protective clothing/eye protection/face protection

Precautionary statements-(Response)

In case of fire: Use suitable extinguishing media for extinction

Precautionary statements-(Storage)

Store in a well-ventilated place. Keep cool Store away from other materials

Precautionary statements-(Disposal)

Dispose of contents/container to an approved waste disposal plant

Others**Other hazards** Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula C₁₆H₃₂N₄O₂

Chemical Name	Molecular weight	CAS RN	Weight-%
2,2'-Azobis(N-butyl-2-methylpropionamide)	312.46	195520-32-2	95.0

Impurities and/or Additives: Not applicable

4. FIRST AID MEASURES**First aid measures**

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact Wash skin with soap and water.

Inhalation Remove to fresh air.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing media**

Water spray (fog). Carbon dioxide (CO₂). Foam. Extinguishing powder. Sand.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion data

Sensitivity to Mechanical none.

Impact

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**

Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods and material for containment and cleaning up Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures Avoid contact with strong oxidizing agents.

Protective measures Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage conditions Keep container protect from light tightly closed. Store in a cool (2-10 °C) place.

Packaging materials Polyethylene.

Incompatible materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and hand- and eye-wash facility. And display their position clearly.

Exposure limits Not applicable

Personal protective equipment

Respiratory protection Dust mask (JIS T 8151)

Hand protection chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Color slightly yellow - yellow

Appearance crystals - powder

Odor characteristic odor

pH no data available

Melting point/freezing point 65 °C

Boiling point, initial boiling point and boiling range no data available

Flash point no data available

Evaporation rate: no data available

Flammability (solid, gas): no data available

Upper/lower flammability or explosive limits

Upper: no data available

Lower: no data available

Vapour pressure no data available

Vapour density no data available

Specific Gravity / Relative density no data available

Solubilities methanol , tetrahydrofuran , acetone , ethyl acetate : Very

n-Octanol/water partition coefficient:(log Pow)	soluble. water , hexane : practically insoluble,or insoluble .
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
Viscosity (coefficient of viscosity)	86.5 °C
Dynamic viscosity	no data available
Particle characteristics	no data available

10. STABILITY AND REACTIVITY

Stability

Chemical stability	May be altered by light.
Reactivity	no data available

Hazardous reactions

Decompose at an accelerating pace and discharge nitrogen gas. May cause runaway reaction by heat or sunlight because of self-reactivity.

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NO_x)

11. TOXICOLOGICAL INFORMATION

Acute toxicity no data available

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2,2'-Azobis(N-butyl-2-methylpropionamide)	300<LD50<=2000 mg/kg(Rat)	N/A	N/A

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
2,2'-Azobis(N-butyl-2-methylpropionamide)	Skin irritation; rabbit; Mild.

Serious eye damage/ irritation no data available

Respiratory or skin sensitization no data available

Reproductive cell mutagenicity no data available

Carcinogenicity no data available

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
2,2'-Azobis(N-butyl-2-methylpropionamide)	Reverse mutation assay in <i>S.typhimurium</i> and <i>E.coli</i> ; negative

STOT-single exposure no data available

STOT-repeated exposure no data available

Aspiration hazard no data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

no data available

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
2,2'-Azobis(N-butyl-2-methylpropionamide) 195520-32-2	N/A	LC50:>35.0mg/L(96hr)(<i>Oryzias latipes</i>)	N/A	N/A

Persistence and degradability

This material is persistent.

Bioaccumulative potential

Low accumulation

Mobility

no data available

Mobility in soil

No information available

Other Data

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Precautionary including method of disposing contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION**DOT**

UN/ID No

Not regulated

Proper shipping name:

Not applicable

UN classification

Self-reactive solid type F : 2,2'-Azobis(N-butyl-2-methylpropionamide)

Subsidiary hazard class

Packing group

Marine pollutant

Not applicable

IATA

UN/ID No

UN3230

Proper shipping name:

Self-reactive solid type F : 2,2'-Azobis(N-butyl-2-methylpropionamide)

UN classification

4.1

Subsidiary hazard class

Packing group

Environmentally Hazardous

Not applicable

Substance

IMDG

UN/ID No

UN3230

Proper shipping name:

Self-reactive solid type F : 2,2'-Azobis(N-butyl-2-methylpropionamide)

UN classification

4.1

Subsidiary hazard class

Packing group

Marine pollutant (Sea)

Not applicable

15. REGULATORY INFORMATION**US Federal Regulations****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

Chemical Name	CAS RN	Weight-%	SARA 313 - Threshold Values %
2,2'-Azobis(N-butyl-2-methylpropionamide) - 195520-32-2	195520-32-2	95.0	N/A

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (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

US State Regulations

California Proposition 65

This product does not contain any chemicals regulated by Proposition 65

U.S. State Right-to-Know Regulations

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

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

Issue Date 08-Jun-2026

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 of Safety Data Sheet