SAFETY DATA SHEET

# BactoView™ Dead Stains, 1000X in DMSO

## SECTION 1: Identification

### 1.1. Product identifier

▼Trade name

BactoView™ Dead Stains, 1000X in DMSO

Other names / Synonyms

40107-T: BactoView™ Dead 500/515, 20 uL
40107: BactoView™ Dead 500/515, 100 uL
40108-T: BactoView™ Dead 560/570, 20 uL
40108: BactoView™ Dead 560/570, 100 uL
40109-T: BactoView™ Dead 570/585, 20 uL
40109: BactoView™ Dead 570/585, 100 uL
40110-T: BactoView™ Dead 600/615, 20 uL
40110: BactoView™ Dead 600/615, 100 uL
40111-T: BactoView™ Dead 655/670, 20 uL
40111: BactoView™ Dead 655/670, 100 uL
40112-T: BactoView™ Dead 690/710, 20 uL
40112: BactoView™ Dead 690/710, 100 uL
40113-T: BactoView™ Dead 760/780, 20 uL
40113: BactoView™ Dead 760/780, 100 uL

Product no.

40107-T, 40107, 40108-T, 40108, 40109-T, 40109, 40110-T, 40110, 40111-T, 40111, 40112-T, 40112, 40113-T, 40113

▼Other means of identification

CAS No.: 67-68-5

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Use as laboratory reagent. For research use only. Not for food, drug, household, or cosmetic use.
Restricted to professional users.

Uses advised against

None known.

### 1.3. Details of the supplier of the safety data sheet

Company and address

**Biotium, Inc.**
46117 Landing Parkway
CA 94538 Fremont
USA
T: +1 510-265-1027
Fax: +1 510-265-1352
http://www.biotium.com

E-mail

techsupport@biotium.com

SDS date

6/11/2025

SDS Version

2.0

Date of previous version

5/1/2024 (1.0)

### 1.4. Emergency telephone number

Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (triage.webpoisoncontrol.org) to get specific guidance for your case
See also section 4 “First aid measures”.

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture
Not classified according to HCS (29 CFR 1910.1200)

### 2.2. Label elements
#### Hazard pictogram(s)
Not applicable.

#### Signal word
Not applicable.

#### Hazard statement(s)

#### Precautionary statement(s)
##### General
-

##### Prevention
-

##### Response
-

##### Storage
-

##### Disposal
-

#### Additional labelling
Not applicable.

## SECTION 3: Composition/Information on Ingredients

### 3.1. ▼Substances
Does not contain any substances required to report

### 3.2. ▼Mixtures
Not applicable. This product is a substance.

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

### Other information
-

## SECTION 4: First-aid measures

### 4.1. ▼Description of first aid measures
#### General information
If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).
Contact a doctor if in doubt about the injured person’s condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation
In case of discomfort: bring the person into fresh air.

#### Skin contact
Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

#### ▼Eye contact
Rinse gently with lukewarm water. Remove any contact lenses if this is easy to do. Continue rinsing. In case of persistent eye irritation or discomfort: Seek medical help.

#### Ingestion
Rinse and flush mouth thoroughly and consume large quantities of water. In case of continued discomfort: seek medical assistance and bring this safety data sheet.

#### Burns

Not applicable.

### 4.2. ▼Most important symptoms and effects, both acute and delayed

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

### 5.2. ▼Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Sulphur oxides
Carbon oxides (CO / CO2)

### 5.3. ▼Advice for firefighters

No specific requirements.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.
Keep unauthorized persons away from the spill

### 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. ▼Precautions for safe handling

Avoid contact during pregnancy and while nursing.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Recommended storage material

No specific requirements

#### Storage conditions

Keep container tightly closed in a dry and well-ventilated place.
Freezer -10°C to -35°C.
Protect from light.

#### Incompatible materials

No specific requirements

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No substances are listed with a permissible exposure limit (ref: 29 CFR 1910.1000 TABLE Z-1)

### 8.2. Exposure controls

Apply general control to prevent unnecessary exposure

#### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

#### Exposure scenarios

There are no exposure scenarios implemented for this product.

#### Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

#### Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of vapours.

#### Hygiene measures

Wash hands after use.

#### Measures to avoid environmental exposure

No specific requirements.

#### Individual protection measures, such as personal protective equipment

##### Generally

Use only protective equipment with a recognized certification mark, e.g. the UL mark.

##### Respiratory Equipment

| Type | Class | Colour | Standards |
|---|---|---|---|
| n/a | n/a | n/a | n/a |

##### Skin protection

| Recommended | Type/Category | Standards |
|---|---|---|
| n/a | n/a | n/a |

##### Hand protection

| Material | Glove thickness (mm) | Breakthrough time (min.) | Standards |
|---|---|---|---|
| Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. | | | |

##### Eye protection

No specific requirements.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Physical state

Liquid

#### Color

No data available

#### Odor

No data available

Odor threshold (ppm)
No data available
pH
No data available
Density (g/cm$^3$)
No data available
Relative density
No data available
Kinematic viscosity
No data available
Particle characteristics
No data available

Phase changes
Melting point/freezing point (°F)
No data available
Softening point/range (°F)
Does not apply to liquids.
Boiling point (°F)
No data available
Vapor pressure
No data available
Relative vapor density
No data available
Decomposition temperature (°F)
No data available

Data on fire and explosion hazards
Flash point (°F)
No data available
Flammability (°F)
No data available
Auto-ignition temperature (°F)
No data available
Explosion limits (% v/v)
No data available

Solubility
Solubility in water
Soluble in water
n-octanol/water coefficient (LogKow)
No data available
Solubility in fat (g/L)
No data available

9.2. Other information
Evaporation rate (n-butylacetate = 100)
No data available
Other physical and chemical parameters
No data available.
Oxidizing properties
No data available

## SECTION 10: Stability and reactivity

10.1. Reactivity
No data available.
10.2. Chemical stability
The product is stable under the conditions, noted in section 7 “Handling and storage”.
10.3. Possibility of hazardous reactions, including those associated with foreseeable emergencies
None known.
10.4. ▼Conditions to avoid
Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

Heat, flames and sparks.

### 10.5. Incompatible materials

No specific requirements

### 10.6. ▼Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

▼Acute toxicity

| | |
|---|---|
| Product/substance | Dimethyl sulfoxide |
| Test method: | OECD 401 |
| Species: | Rat, male/female |
| Route of exposure: | Oral |
| Test: | LD50 |
| Result: | 28,300 mg/kg |

| | |
|---|---|
| Product/substance | Dimethyl sulfoxide |
| Test method: | OECD 403 |
| Species: | Rat, male/female |
| Route of exposure: | Inhalation |
| Test: | LC50 |
| Result: | 4h - > 5.33 mg/L |

| | |
|---|---|
| Product/substance | Dimethyl sulfoxide |
| Species: | Rat, male/female |
| Route of exposure: | Dermal |
| Test: | LD50 |
| Result: | 40,000 mg/kg |

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

▼Skin corrosion/irritation

| | |
|---|---|
| Product/substance | Dimethyl sulfoxide |
| Test method: | OECD 404 |
| Species: | Rabbit |
| Description: | Slight irritation 4 h |

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

▼Serious eye damage/irritation

| | |
|---|---|
| Product/substance | Dimethyl sulfoxide |
| Test method: | OECD 405 |
| Species: | Rabbit |
| Description: | Slight irritation - 24 h |

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

▼Respiratory sensitisation

| | |
|---|---|
| Product/substance | Dimethyl sulfoxide |
| Test method: | OECD 406 |
| Species: | Guinea pig |
| Description: | Negative |

| | |
|---|---|
| Product/substance | Dimethyl sulfoxide |
| Test method: | OECD 429 |
| Species: | Mouse |
| Description: | Negative |

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

▼Skin sensitisation

| | |
|---|---|
| Product/substance | Dimethyl sulfoxide |
| Test method: | OECD 406 |
| Species: | Guinea pig |
| Description: | Negative |

| | |
|---|---|
| Product/substance | Dimethyl sulfoxide |
| Test method: | OECD 429 |
| Species: | Mouse |

Description: Negative

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

▼Germ cell mutagenicity

| | |
|---|---|
| Product/substance | Dimethyl sulfoxide |
| Test method: | OECD 471 |
| Species: | S. typhimurium |
| Description: | Negative |

| | |
|---|---|
| Product/substance | Dimethyl sulfoxide |
| Test method: | OECD Test Guideline 479 |
| Species: | Chinese Hamster Ovary (CHO) |
| Description: | Negative |

| | |
|---|---|
| Product/substance | Dimethyl sulfoxide |
| Test method: | OECD 473 |
| Species: | Chinese Hamster Ovary (CHO) |
| Description: | Negative |

| | |
|---|---|
| Product/substance | Dimethyl sulfoxide |
| Test method: | OECD 474 |
| Species: | Rat |
| Description: | Negative |

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

▼Long term effects

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

Other information

None known.

## SECTION 12: Ecological information

12.1. ▼Toxicity

| | |
|---|---|
| Product/substance | Dimethyl sulfoxide |
| Test method: | OECD 203 |
| Species: | Fish, Danio rerio |
| Duration: | 96 hours |
| Test: | LC50 |
| Result: | 25,000 mg/L |

| | |
|---|---|
| Product/substance | Dimethyl sulfoxide |
| Test method: | OECD 202 |
| Species: | Daphnia |
| Duration: | 48 hours |
| Test: | EC50 |
| Result: | 24,600 mg/L |

| | |
|---|---|
| Product/substance | Dimethyl sulfoxide |
| Test method: | OECD 201 |
| Species: | Algae, Pseudokirchneriella subcapitata |

| | |
|---|---|
| Duration: | 72 hours |
| Test: | ErC50 |
| Result: | 17,000 mg/L |

| | |
|---|---|
| Product/substance | Dimethyl sulfoxide |
| Test method: | ISO 8192 |
| Species: | Bacteria |
| Compartment: | Activated Sludge Plant |
| Duration: | 30 min. |
| Test: | EC50 |
| Result: | 10 - 100 mg/L |

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

### 12.2. Persistence and degradability

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

### 12.3. ▼Bioaccumulative potential

| | |
|---|---|
| Product/substance | Dimethyl sulfoxide |
| Conclusion: | Potential for bioaccumulation |
| Test: | OECD Test Guideline 301D |

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### 12.6. ▼Other adverse effects

This product contains substances with the potential of bioaccumulation resulting in the risk of accumulation in the food chain. Bioaccumulative substances are concentrated in adipose tissue and are not easily secreted.

## SECTION 13: Disposal considerations

### RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)

None of the components are listed

### Specific labelling

### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

| | 14.1 UN / ID | 14.2 UN proper shipping name | 14.3 Hazard class(es) | 14.4 PG* | 14.5 Env** | Other information: |
|---|---|---|---|---|---|---|
| DOT | - | - | - | - | - | - |
| IMDG | - | - | - | - | - | - |
| IATA | - | - | - | - | - | - |

* Packing group

** Environmental hazards

### Additional information

Not dangerous goods according to DOT, IATA and IMDG.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to IMO instruments

No data available.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.2. ▼U.S. Federal regulations

▼TSCA (the non-confidential portion)

Dimethyl sulfoxide is listed

Clean Air Act
None of the components are listed

EPCRA Section 302
None of the components are listed

EPCRA Section 304
None of the components are listed

EPCRA section 313
None of the components are listed

CERCLA
None of the components are listed

▼Hazardous chemical inventory reporting
This product is not subject to Tier II reporting.

▼State regulations

California / Prop. 65
None of the components are listed

Massachusetts / Right To Know Act
None of the components are listed

▼New Jersey / Right To Know Act
Dimethyl sulfoxide / Substance number: 4145
Dimethyl sulfoxide is on the Special Health Hazard Substance List
—

New York / Right To Know Act
None of the components are listed

Pennsylvania / Right To Know Act
None of the components are listed

15.4. ▼Restrictions for application
Restricted to professional users.
Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

15.5. Demands for specific education
No specific requirements.

15.6. Additional information
Not applicable.

15.7. Chemical safety assessment
No

15.8. Sources
OSHA Hazard Communication Standard (29 CFR 1910.1200)

## SECTION 16: Other information

The full text of identified uses as mentioned in section 1
None known.

Abbreviations and acronyms
ACGIH = American Conference of Governmental Industrial Hygienists
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CERCLA = Comprehensive Environmental Response Compensation and Liability Act
DOT = Department of Transportation
EINECS = European Inventory of Existing Commercial chemical Substances
EPCRA = Emergency Planning and Community Right-To-Know Act
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
HCIS = Hazardous Chemical Information System
HNOC = Hazards Not Otherwise Classified
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NFPA = National Fire Protection Association
NIOSH = National Institute for Occupational Safety and Health
OECD = Organisation for Economic Co-operation and Development
OSHA = Occupational Safety and Health Administration
PBT = Persistent, Bioaccumulative and Toxic
RCRA = Resource Conservation and Recovery Act
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SARA = Superfund Amendments and Reauthorization Act
SCL = A specific concentration limit.
STEL = Short-term exposure limits
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TSCA = The Toxic Substances Control Act
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

### Additional information

In accordance with HCS (29 CFR 1910.1200(g)), a safety data sheet is not required for this product. This safety data sheet has been created on a voluntary basis to distribute relevant information.
The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Biotium shall not be held liable for any damage resulting from handling or contact with the above product.

### The safety data sheet is validated by

Julianne Davis

### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: US-en