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# SAFETY DATA SHEET

Date Revised: March 8, 2023

1										
1.	PRODUCT AND COMPA									
	Product Name:	NucView® Caspase-3 Enzyme Substrates, 1 mM in DMSO								
	Catalog Number:	Product Name		atalog Number						
		NucView®		0405/10405-T						
		NucView®		0403/10403-1 0402/10402-T						
		NucView®		0402/10402-1 0406/10406-T						
		Nucview®	550 10	J400/10400-1						
	Unit Size: Manufacturer/Supplier:	10 uL, 10 Biotium, Ii								
	Manufacturen/Supplier.		nding Parkway, Fr	mont CA 0452						
	Phone: 1-510-265-1027, Fax: 1-510-265-1352 Web: <u>http://www.biotium.com</u>									
		web. <u>mip</u>	.// www.biotium.com	<u></u>						
	Use as laboratory reager	nt. For resea	rch use only. Not f	or food, drug, he	ousehold, or cosmetic use.					
2.	HAZARDS IDENTIFICAT	ION								
	GHS classification Nor	ne								
	Signal word	None								
	Health hazards	lone								
	Physical hazards	lone								
	Hazard statements	lone								
	Precautionary stateme	nts N	None							
	GHS hazard pictogram	1	None							
	WHMIS classification									
	Flammable liquids - Cate	egory 4								
	NEDA Doting									
	NFPA Rating									
	Health hazard: 0 Fire: 2									
	Reactivity Hazard: 0									
	Reactivity Hazard. 0									
	Classification accordin	a to Regula	tion (FC) No 1272	2/2008[CI P1 No	one					
	Labeling according to I									
		None								
		lone								
		None								
	Precautionary statement	nts N	None							
	,									
3.	COMPOSITION/INFORM	ATION ON I	NGREDIENTS							
		CAS No.	EC No.	Weight %	Classification					
	DMSO	67-68-5	200-664-3	>99%	Flammable liquids - Category 4					
					(WHMIS)					

# 4. FIRST- AID MEASURES General advice



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Remove affected clothing and launder before reuse. **If inhaled** If breathed in, move person into fresh air. If not breathing, give artificial respiration and seek medical care. **In case of skin contact** Wash off with soap and plenty of water. If irritation persists, seek medical care. **In case of eye contact** Flush eyes with water for 15 minutes. If irritation persists, seek medical care. **If swallowed** Do NOT induce vomiting. Rinse mouth with water. Seek medical care.

#### 5. FIREFIGHTING MEASURES

#### Suitable extinguishing media

Carbon dioxide, dry chemical extinguishers, foam extinguishers or water.

## Special protective equipment for firefighters

Burning produces poisonous gases, sulfur oxides. Wear self contained breathing apparatus for firefighting if necessary.

# 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Avoid breathing vapors, mist or gas. Remove all sources of ignition.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Contain spillage. Soak up spilled substance with inert absorbent material. . Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid inhalation of vapor or mist. Avoid direct contact with substance. **Conditions for safe storage** Keep container tightly closed in a dry and well-ventilated place.

Store at 4°C.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Substance:	Dimethyl	Isulfoxide					
CAS no.	67-68-5						
Country	Austria	Denmark	Finland	Germany (AGS)	Germany (DFG)	Sweden	Switzerland
Limit	50 ppm	50 ppm	50 ppm	50 ppm (1)	50 ppm (1)	50 ppm	50 ppm
value,	160mg/m3	160mg/m3		160 mg/m3 (1)	160 mg/m3 (1)	150 mg/m3	160mg/m3
8hours							
Limit value,	-	100 ppm	-	100 ppm (1)(2)	100 ppm (1)(2)	150 ppm (1)	100 ppm
short term		320mg/m3		320mg/m3 (1)(2)	320mg/m3 (1)(2)	500 mg/m3 (1)	320mg/m3
Germany (AGS): (1) Skin (2) 15 minutes average value							



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Germany (DFG): (1) Skin (2) 15 minutes average value Sweden: (1) 15 minutes average value

#### Personal protective equipment

# Hand protection

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.

#### **Respiratory protection**

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	NucView® Caspase-3		
	Enzyme Substrates,		
	1 mM in DMSO		
Appearance	Liquid		
Odor	No data available		
Odor threshold	No data available		
рН	No data available		
Melting point/freezing point	No data available		
Boiling point	No data available		
Flash point	No data available		
Evaporate rate	No data available		
Flammability	No data available		
Explosive limits	No data available		
Vapor pressure	No data available		
Vapor density	No data available		
Relative density	No data available		
Solubility	Soluble in water		
Partition coefficient:n-octanol/water	No data available		
Auto-ignition temperature	No data available		
Decomposition temperature	No data available		
Viscosity	No data available		
Explosive properties	No data available		
Oxidizing properties	No data available		

# 10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions No data available Conditions to avoid Heat, flames and sparks. Materials to avoid



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No data available

Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, sulfur oxides Other decomposition products - no data available

# 11. TOXICOLOGICAL INFORMATION

Acute toxicity							
Oral LD50 Rat - male and female - 28,300 mg/kg (OECD Test Guideline 401)							
Inhalation LC50 Rat - male and female - 4 h - > 5.33 mg/l (OECD Test Guideline 403)	Inhalation LC50 Rat - male and female - 4 h - > 5.33 mg/l (OECD Test Guideline 403)						
<b>Dermal LD50</b> Rat - male and female - 40,000 mg/kg Remarks: (ECHA)							
Other information on acute toxicity No data available							
Skin corrosion/irritation							
Skin - Rabbit							
Result: slight irritation - 4 h							
(OECD Test Guideline 404)							
Serious eye damage/eye irritation							
Eyes - Rabbit							
	Result: slight irritation - 24 h						
(OECD Test Guideline 405)							
Respiratory or skin sensitization							
Maximization Test - Guinea pig Result: negative							
(OECD Test Guideline 406) Local lymph node assay (LLNA) - Mouse							
Result: negative							
(OECD Test Guideline 429)							
Germ cell mutagenicity							
Ames test							
Salmonella typhimurium							
Result: negative							
sister chromatid exchange assay							
Chinese hamster ovary cells							
Result: negative							
Mutagenicity (mammal cell test): chromosome aberration.							
Chinese hamster ovary cells							
Result: negative							
OECD Test Guideline 474							
Rat - male and female							
Result: negative							
Carcinogenicity							
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as							
probable, possible or confirmed human carcinogen by IARC.							
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a							
carcinogen or potential carcinogen by ACGIH.							
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a							
known or anticipated carcinogen by NTP.							
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a							
carcinogen or potential carcinogen by OSHA.							
Reproductive toxicity No data available							
Specific target organ toxicity - single exposure (Globally Harmonized System)							
No data available Specific target organ toxicity - repeated expective (Clobally Harmonized System)							
Specific target organ toxicity - repeated exposure (Globally Harmonized System) No data available							

**Biotium** 

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Aspiration hazard No data available Potential health effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. **Additional Information** Repeated dose toxicity - Rat - male and female - Oral - 18 Months - NOAEL (No observed adverse effect level) - 3,300 mg/kg - LOAEL (Lowest observed adverse effect level) - 9,900 mg/kg Repeated dose toxicity - Monkey - male and female - Dermal - 18 Months - NOAEL (No observed adverse effect level) - >= 8,910 mg/kg - LOAEL (Lowest observed adverse effect level) - 990 mg/kg RTECS: PV6210000 Exposure to large amounts can cause:, redness of skin, Itching, burning, sedation, Headache, Nausea, Dizziness To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Eyes - Eye disease - Based on Human Evidence Eyes - Eye disease - Based on Human Evidence

RTECS: PV6210000 (DMSO)

12. ECOLOGICAL INFORMATION

#### Toxicity

Toxicity to fish: static test LC50 - Danio rerio (zebra fish) - > 25,000 mg/l - 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates: static test EC50 - Daphnia magna (Water flea) - 24,600 mg/l - 48 h (OECD Test Guideline 202) Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata (green algae) -17,000 mg/l - 72 h (OECD Test Guideline 201) Toxicity to bacteria EC50 - activated sludge - 10 - 100 mg/l - 30 min (ISO 8192)

 

 Persistence and degradability Bioaccumulative potential
 No information available aerobic - Exposure time 28 d Result: 31 % - Not readily biodegradable. (OECD Test Guideline 301D)

 Mobility in soil
 No information available

 Results of PBT and vPvB assessment
 No information available

 Other adverse effects
 No information available

 Additional information
 Vo information available

 Stability in water - 0.12 - 1.2 h at 30 °C pH 7

 Remarks: Hydrolyzes readily.

## 13. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

14. TRANSPORT INFORMATION

IATA, IMDG, DOT (US), TDG Not dangerous goods during transportation



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 UN number
 None

 UN proper shipping name None

 Transport hazard class
 None

 Packing group
 None

 Environmental hazards
 None

 Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code
 None

 Special precaution for user
 None

# 15. REGULATION INFORTMATION

US Federal Regulations US Toxic Substances Control Act (TSCA): Not listed SARA 302: No chemicals were found. SARA 313: No chemicals were found. SARA 311/312: DMSO : fire hazard, chronic health hazard

WHMIS Hazard Class

s Flammable liquids - Category 4

16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008

Prepared by: Regulatory Department Biotium Inc. Version no. 1 Revision date (Initials) Reason for revision

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