

SAFETY DATA SHEET

GloMelt[™] Thermal Shift Protein Stability Kit 2.0

SECTION 1: Identification

1.1. Product identifier

Trade name

GloMelt[™] Thermal Shift Protein Stability Kit 2.0

Other names / Synonyms

33027-T: GloMelt[™] Thermal Shift Protein Stability Kit 2.0, 200 x 20 uL reactions 33027-1: GloMelt[™] Thermal Shift Protein Stability Kit 2.0, 2000 x 20 uL reactions

Kit Components:

99843-20UL: GloMelt™ Dye, 200X, 20 uL

99843-200UL: GloMelt™ Dye, 200X, 200 uL

99891-40UL: Recombinant Mouse Monoclonal IgG1, 5 mg/mL, 40 uL

Product no.

33027-T, 33027-1

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

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

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 12/13/2024 SDS Version 1.0 1.4. Emergency telephone number In an emergency call 911 Alberta / Northwestern Territories (PADIS): 1-800-332-1414 British Columbia (DPIC): 1-800-567-8911 Manitoba: 1-855-7POISON (1-855-776-4766) New Brunswick: 911 Nova Scotia / Prince Edward Island (IWK): 1-800-565-8161 Ontario (OPC): 1-800-268-9017 Québec (CAPQ): 1-800-463-5060 Saskatchewan (PADIS): 1-866-454-1212 Yukon Territory: (867) 393-8700 Transport emergenices: Call CANUTEC at 1-888-CAN-UTEC (226-8832), 613-996-6666 or *666 on a cellular phone (24 hours)

See also section 4 "First aid measures".



SECTION 2: Hazard(s) identification

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2.1. Classification of the substance or mixture
  See individual kit component SDS attached.
  Not classified according to WHMIS 2022
2.2. Label elements
  See individual kit component SDS attached.
  Hazard pictogram(s)
     Not applicable.
  Signal word
     Not applicable.
  Hazard statement(s)
  Precautionary statement(s)
     General
     Prevention
     Response
     Storage
     Disposal
  Hazardous substances
     None known.
  Additional labelling
     Not applicable.
2.3. Other hazards
  See individual kit component SDS attached.
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SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Does not contain any substances required to report

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

Other information

See individual kit component SDS attached.

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

None known.

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.

5.3. Advice for firefighters

No specific requirements.

SECTION 6: Accidental release measures

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

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

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

Refer to section 7 of each kit component SDS (appended) for proper storage conditions for each kit component. 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 in any provincial list of substances with an occupational exposure limit.

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis. 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

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

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

Туре	Class	Colour	Standards	
Not required; ex case of aerosol formation.	kcept in		N/A	

Skin protection

No specific requirements.

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.				

Туре	Standards	
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).	EN166	$\overline{\mathbf{\Theta}}$



SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state Liquid Colour No data available Odour No data available Odour threshold (ppm) No data available pН No data available Density (g/cm³) No data available **Relative density** No data available **Kinematic viscosity** No data available Particle characteristics No data available Phase changes Melting point (°C) No data available Softening point/range (°F) Does not apply to liquids. Boiling point (°C) No data available Vapour pressure No data available Relative vapour density No data available Decomposition temperature (°C) No data available Data on fire and explosion hazards Flash point (°C) No data available Flammability (°C) No data available Auto-ignition temperature (°C) No data available Explosion limits (% v/v) No data available Solubility Solubility in water Soluble 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 None known.

10.4. Conditions to avoid 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

Based on available data, the classification criteria are not met. Skin corrosion/irritation

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

Serious eye damage/irritation

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

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

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

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

None known.

Other information None known.

SECTION 12: Ecological information

12.1. Toxicity

No data available.

12.2. Persistence and degradability

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

- 12.3. Bioaccumulative potential
- Based on available data, the classification criteria are not met.
- 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

None known.

SECTION 13: Disposal considerations

Waste treatment methods

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 / IC	14.2 9 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
TDG	-	-	-	-	-	-
IMDG	-	-		-	-	-
IATA	-	-	-	-	-	-
14.6. Spec Not app 14.7. Tran	nental ha informat ngerous g ial preca blicable.	tion goods according to TDG, IATA and I utions for user bulk according to Annex II of Marpo				
SECTION	15: Regu	latory information				
15.2. Cana NDSL Non DSL Non 15.4. Restrict 15.5. Dem No spec Additional Not app 15.7. Cher No Sources	e of the o e of the o rictions fo ed to pro ands for cific requ informat olicable. nical safe	components are listed components are listed or application ofessional users. specific education irements.	gislation specific for the substance o	r mixture		
SECTION	16: Othe	r information				
None k Abbreviati	nown. ons and	itified uses as mentioned in section acronyms n National Standards Institute	1			



ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS = Chemical Abstracts Service DSL = Domestic Substances List GHS = Globally Harmonized System of Classification and Labelling of Chemicals HHNOC = Health 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) NDSL = Non-domestic substances list OECD = Organisation for Economic Co-operation and Development PBT = Persistent, Bioaccumulative and Toxic PHNOC = Physical Hazards Not Otherwise Classified RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail SCL = A specific concentration limit. SOR = Statutory Orders and Regulations STEL = Short-term exposure limits STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TDG = Transportation of Dangerous Goods 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 WHIMS = Workplace Hazardous Materials Information System Additional information 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: CA-en



SAFETY DATA SHEET

GloMelt™ Dye, 200X

SECTION 1: Identification

1.1. Product identifier Trade name GloMelt[™] Dye, 200X Other names / Synonyms 99843-20UL: GloMelt™ Dye, 200X, 20 uL 99843-200UL: GloMelt[™] Dye, 200X, 200 uL Product no. 99843-20UL, 99843-200UL 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 Use as laboratory reagent. For research use only. Not for food, drug, household, or cosmetic use. 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 12/13/2024 SDS Version 1.0 1.4. Emergency telephone number In an emergency call 911 Alberta / Northwestern Territories (PADIS): 1-800-332-1414 British Columbia (DPIC): 1-800-567-8911 Manitoba: 1-855-7POISON (1-855-776-4766) New Brunswick: 911 Nova Scotia / Prince Edward Island (IWK): 1-800-565-8161 Ontario (OPC): 1-800-268-9017 Québec (CAPQ): 1-800-463-5060 Saskatchewan (PADIS): 1-866-454-1212 Yukon Territory: (867) 393-8700 Transport emergenices: Call CANUTEC at 1-888-CAN-UTEC (226-8832), 613-996-6666 or *666 on a cellular phone (24 hours) See also section 4 "First aid measures".

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Not classified according to WHMIS 2022

2.2. Label elements



Conforms to Hazardous Products Regulations (SOR/2022-272)

Hazard pictogram(s) Not applicable. Signal word Not applicable.
Hazard statement(s)
Precautionary statement(s)
General
General
Prevention
-
Response
-
Storage
-
Disposal
-
Hazardous substances Dimethyl sulfoxide
Additional labelling Not applicable.
2.3. Other hazards

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Does not contain any substances required to report

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

Other information

No ingredients present at concentrations classified as harmful to health or the environment.

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

None known.

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

Ensure adequate ventilation, especially in confined areas. 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

Always store in containers of the same material as the original container.

Storage conditions

Freezer -10°C to -35°C.

Keep container tightly closed in a dry and well-ventilated place.

Protect from light.

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

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 in any provincial list of substances with an occupational exposure limit.



8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

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

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

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

Туре	Class	Colour	Standards	
Not required; except in case of aerosol formation.			N/A	
kin protection				
Recommended	Type/Category	St	andards	

Sk

Recommended	Type/Category	Standards
No specific requirements.	-	-

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

Туре	Standards	
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	EN166	



Conforms to Hazardous Products Regulations (SOR/2022-272)

Туре	Standards
EN 166(EU).	
SECTION 9: Physica	l and chemical properties
Physical state Liquid	basic physical and chemical properties
Colour Yellow Odour	
Odour threshold	r available data due to the nature of the product. (ppm) r available data due to the nature of the product.
pH No relevant or Density (g/cm³)	r available data due to the nature of the product.
Kinematic viscosi	r available data due to the nature of the product. ty r available data due to the nature of the product.
Particle character Does not apply Phase changes	ristics
Melting point (°C)	r available data due to the nature of the product.
Does not appl Boiling point (°C)	y to liquids.
Vapour pressure No relevant or Relative vapour d	r available data due to the nature of the product. lensity
Decomposition te	r available data due to the nature of the product. emperature (°C) r available data due to the nature of the product.
Data on fire and exp Flash point (°C) No relevant or	plosion hazards r available data due to the nature of the product.
Flammability (°C) No relevant or Auto-ignition tem	r available data due to the nature of the product.
No relevant or Explosion limits (9	r available data due to the nature of the product.
Solubility Solubility in water Soluble in wat	r
n-octanol/water o No relevant or	coefficient (LogKow) r available data due to the nature of the product.
9.2. Other informati	r available data due to the nature of the product. on
Other physical an No data availa Oxidizing propert	
	r available data due to the nature of the product.



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
- None known.
- 10.4. Conditions to avoid Heat, flames and sparks.
- 10.5. Incompatible materials
 - Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

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

Based on available data, the classification criteria are not met. Skin corrosion/irritation

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

Serious eye damage/irritation

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

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

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

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

None known.

Other information None known.

SECTION 12: Ecological information

12.1. Toxicity

No data available.

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

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

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

None known.

SECTION 13: Disposal considerations

Waste treatment methods

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 9 UN proper shipping nan	14.3 ne Hazard class(es)	14.4 PG*	14.5 Env**	Other informati n:
TDG	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
ΙΑΤΑ	-	-	-	-	-	-
Addition Not d 14.6. Spe Not a 14.7. Tra	ecial precau pplicable.	tion goods according to TDG, utions for user pulk according to Annex	IATA and IMDG. II of Marpol and the IBC Code			
15.1. Saf	^F ety, health nadian lists	-	ulations/legislation specific for the sub	stance or mixture		
No DSL No 15.4. Res Restri Pregr preca 15.5. De	one of the c one of the c strictions fo icted to pro nant women utions or d	esign of the workplace r specific education	ding must not be exposed to this produ needed to eliminate exposure, must be		ossible t	echnical
Not a	al informat pplicable. emical safe	tion ty assessment				

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



Abbreviations and acronyms ANSI = American National Standards Institute ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS = Chemical Abstracts Service DSL = Domestic Substances List GHS = Globally Harmonized System of Classification and Labelling of Chemicals HHNOC = Health 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) NDSL = Non-domestic substances list OECD = Organisation for Economic Co-operation and Development PBT = Persistent, Bioaccumulative and Toxic PHNOC = Physical Hazards Not Otherwise Classified RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail SCL = A specific concentration limit. SOR = Statutory Orders and Regulations STEL = Short-term exposure limits STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TDG = Transportation of Dangerous Goods 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 WHIMS = Workplace Hazardous Materials Information System Additional information 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: CA-en

SAFETY DATA SHEET

Recombinant Mouse Monoclonal IgG1, 5 mg/mL

SECTION 1: Identification

1.1. Product identifier Trade name Recombinant Mouse Monoclonal IgG1, 5 mg/mL Other names / Synonyms 99891-40UL: Recombinant Mouse Monoclonal IgG1, 5 mg/mL, 40 uL Product no. 99891-40UL 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 Use as laboratory reagent. For research use only. Not for food, drug, household, or cosmetic use. 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 12/13/2024 SDS Version 1.0 1.4. Emergency telephone number In an emergency call 911 Alberta / Northwestern Territories (PADIS): 1-800-332-1414 British Columbia (DPIC): 1-800-567-8911 Manitoba: 1-855-7POISON (1-855-776-4766) New Brunswick: 911 Nova Scotia / Prince Edward Island (IWK): 1-800-565-8161 Ontario (OPC): 1-800-268-9017 Québec (CAPQ): 1-800-463-5060 Saskatchewan (PADIS): 1-866-454-1212 Yukon Territory: (867) 393-8700 Transport emergenices: Call CANUTEC at 1-888-CAN-UTEC (226-8832), 613-996-6666 or *666 on a cellular phone (24 hours) See also section 4 "First aid measures".

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Not classified according to WHMIS 2022

2.2. Label elements

Hazard pictogram(s)



Not applicable. Signal word Not applicable. Hazard statement(s) Precautionary statement(s) General Prevention Response Storage Disposal Hazardous substances None known. Additional labelling Not applicable.

2.3. Other hazards

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Does not contain any substances required to report

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

Other information

No ingredients present at concentrations classified as harmful to health or the environment.

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 None known.

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. 5.3. Advice for firefighters No specific requirements.
SECTION 6: Accidental release measures
 6.1. Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation, especially in confined areas. 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 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 Always store in containers of the same material as the original container. Storage conditions Freezer -10°C to -35°C. Keep container tightly closed in a dry and well-ventilated place. Incompatible materials Strong acids, strong bases, strong oxidizing agents, and strong reducing agents. 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 in any provincial list of substances with an occupational exposure limit. 8.2. Exposure controls Compliance with the given occupational exposure limits values should be controlled on a regular basis. 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.



Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

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

Туре	Class	Colour	Standards	
Not required; case of aerosc formation.			N/A	

Skin protection

No specific requirements. 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

Туре	Standards
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).	EN166

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid Colour Clear





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Odour	
No relevant or available data due to the nature of the product. Odour threshold (ppm)	
No relevant or available data due to the nature of the product.	
pH 7.5	
Density (g/cm ³) No relevant or available data due to the nature of the product.	
Kinematic viscosity	
No relevant or available data due to the nature of the product. Particle characteristics	
Does not apply to liquids.	
Phase changes	
Melting point (°C) No relevant or available data due to the nature of the product.	
Softening point/range (°F) Does not apply to liquids.	
Boiling point (°C) No relevant or available data due to the nature of the product.	
Vapour pressure	
No relevant or available data due to the nature of the product.	
Relative vapour density	
No relevant or available data due to the nature of the product.	
Decomposition temperature (°C) No relevant or available data due to the nature of the product.	
Data on fire and explosion hazards	
Flash point (°C)	
No relevant or available data due to the nature of the product. Flammability (°C)	
No relevant or available data due to the nature of the product.	
Auto-ignition temperature (°C)	
No relevant or available data due to the nature of the product.	
Explosion limits (% v/v) No relevant or available data due to the nature of the product.	
Solubility	
Solubility in water Soluble in water	
n-octanol/water coefficient (LogKow)	
No relevant or available data due to the nature of the product.	
Solubility in fat (g/L) No relevant or available data due to the nature of the product.	
9.2. Other information	
Other physical and chemical parameters No data available.	
Oxidizing properties	
No relevant or available data due to the nature of the product.	
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

None known. 10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials



Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

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

Based on available data, the classification criteria are not met. Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/irritation

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

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

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

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

None known.

Other information None known.

SECTION 12: Ecological information

12.1. Toxicity

No data available.

12.2. Persistence and degradability

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

- 12.3. Bioaccumulative potential
 - Based on available data, the classification criteria are not met.
- 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 None known.

SECTION 13: Disposal considerations

Waste treatment methods

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 informatio n:
TDG	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-
 * Packing group ** Environmental hazards Additional information Not dangerous goods according to TDG, IATA and IMDG. 14.6. Special precautions for user Not applicable. 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code No data available. 						
SECTION 1	5: Regu	latory information				
 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.2. Canadian lists NDSL None of the components are listed DSL None of the components are listed 15.4. Restrictions for application Restricted to professional users. 15.5. Demands for specific education No specific requirements. Additional information Not applicable. 15.7. Chemical safety assessment No Sources Hazardous Products Regulations (SOR/2022-272) 						
SECTION 1	6: Othei	r information				
None kn Abbreviatio ANSI = A ATE = Ac BCF = Bio CAS = Ch DSL = Do GHS = G HHNOC IARC = Ir IATA = Ir IMDG = 1 LogPow MARPOL 1978. ("N	own. merican ute Toxi oconcen hemical / omestic ! lobally H = Health hternatic Internatic Internatic Internatic = logarit . = Intern	n National Standards Institute city Estimate stration Factor Abstracts Service Substances List farmonized System of Classification a n Hazards Not Otherwise Classified onal Agency for Research on Cancer onal Air Transport Association ional Maritime Dangerous Goods thm of the octanol/water partition co	and Labelling of Chemicals	nodified	by the P	rotocol of



OECD = Organisation for Economic Co-operation and Development PBT = Persistent, Bioaccumulative and Toxic PHNOC = Physical Hazards Not Otherwise Classified RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail SCL = A specific concentration limit. SOR = Statutory Orders and Regulations STEL = Short-term exposure limits STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TDG = Transportation of Dangerous Goods 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

WHIMS = Workplace Hazardous Materials Information System

Additional information

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 quide. 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: CA-en