SAFETY DATA SHEET



200uL HIgG (10mg/mL)

Section 1. Ide	ntification
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GHS product identifier	: 200uL HIgG (10mg/mL)			
Other means of identification	: Not available.			
Part number/Product code	: 18-1073			
Product description	: Biochemical Reagent			
Product type	: Liquid.			
Relevant identified uses of t	Relevant identified uses of the substance or mixture and uses advised against			
Identified uses	: Laboratory use only (research).			
Supplier's details	: Pall ForteBio LLC 47661 Fremont Boulevard Fremont, CA 94538 USA			
	Tel: 650.322.1360			
e-mail address of person responsible for this SDS	: Linda_Lewis@pall.com			
Emergency telephone number (with hours of operation)	: CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887 24 hours/day, 7 days/week			

Section 2. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1
<u>GHS label elements</u> Hazard pictograms	:



Signal word	: Warning
Hazard statements	 H319 - Causes serious eye irritation. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction.
Precautionary statements	
Prevention	 P280 - Wear protective gloves. Wear eye or face protection. P261 - Avoid breathing vapor. P264 - Wash hands thoroughly after handling. P272 (OSHA) - Contaminated work clothing must not be allowed out of the workplace.



Section 2. Hazards identification

Response	 P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
Storage	: Not applicable.
Disposal	 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number/other identifiers

CAS number

: Not applicable.

Ingredient name	%	CAS number
Reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	<0.25	55965-84-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.



Section 4. First aid measures

Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/e	s, acute and delayed	
Potential acute health effect		
Eye contact	Causes serious eye irritation.	
Inhalation	No known significant effects or critical hazards.	
Skin contact	Causes skin irritation. May cause an allergic skin reaction.	
Ingestion	No known significant effects or critical hazards.	
<u>Over-exposure signs/symp</u>		
Eye contact	Adverse symptoms may include the following: pain or irritation watering edness	
Inhalation	No known significant effects or critical hazards.	
Skin contact	Adverse symptoms may include the following: rritation edness	
Ingestion	No known significant effects or critical hazards.	
Indication of immediate med	attention and special treatment needed, if necessary	
Notes to physician	Freat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
Specific treatments	No specific treatment.	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It be dangerous to the person providing aid to give mouth-to-mouth resuscitation. We contaminated clothing thoroughly with water before removing it, or wear gloves.	

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: No specific data.
Special protective actions for fire-fighters	: No special protection is required.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.



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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	-	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	nt	ainment and cleaning up
Spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section

1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in whice this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative m from a compatible material, kept tightly closed when not in use. Empty containers reproduct residue and can be hazardous. Do not reuse container.	l Iade
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating drinking and smoking. See also Section 8 for additional information on hygiene measures.	g,
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store under refrigeration at 2°C to 8°C. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containmer avoid environmental contamination of the reagent.	nt to

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	None.

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Section 8. Exposure controls/personal protection

Appropriate engineering controls	t likely to be a problem due to the small quantity of material present. Ha cordance with good hygiene practices. Wash hands before eating, drink oking after using the product, and at the end of a work day.	
Environmental exposure controls	ep from entering drains. Not likely to pose a problem due to the small q terial present.	uantity of
Individual protection measur		
Hygiene measures	ish hands, forearms and face thoroughly after handling chemical produ ing, smoking and using the lavatory and at the end of the working perio t eyewash stations and safety showers are close to the workstation loc	od. Ensure
Eye/face protection	t likely to be needed due to the small quantity of material present. Stan oratory safety spectacles.	dard
Skin protection		
Hand protection	ndle using standard laboratory gloves, appropriate for the overall task t nducted. Consult manufacturer for suitability of materials.	being
Body protection	t likely to be needed due to the small quantity of material present. Stan oratory coat.	dard
Other skin protection	propriate footwear and any additional skin protection measures should sed on the task being performed and the risks involved and should be a acialist before handling this product.	
Respiratory protection	t likely to be needed due to the small quantity of material present.	

Section 9. Physical and chemical properties

Appearance		
Physical state	1	Liquid.
Color	1	Clear.
Odor	1	Not available.
Odor threshold	1	Not available.
рН	1	7.4
Melting point	1	0°C (32°F)
Boiling point	1	100°C (212°F)
Flash point	1	Not applicable.
Evaporation rate	1	1 (Water = 1)
Flammability (solid, gas)	1	Not applicable.
Lower and upper explosive (flammable) limits	:	Not applicable.
Vapor pressure	1	Not available.
Vapor density	1	Not available.
Relative density	1	1
Solubility	1	Not applicable.
Partition coefficient: n- octanol/water	1	Not available.
Auto-ignition temperature	1	Not applicable.
Decomposition temperature	1	Not available.
Viscosity	1	Not available.

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Section 10. Stability and reactivity

Reactivity	: The product is stable under recommended conditions of storage and use.
Chemical stability	: The product is stable under recommended conditions of storage and use.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: None known.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

THE HUMAN SOURCE MATERIAL USED FOR THE PREPARATION OF THIS PRODUCT WAS COLLECTED FROM FDA LICENSED CENTERS AND HAS BEEN TESTED USING FDA LICENSED TESTS TO SHOW THE FOLLOWING: Negative for Hepatitis B Surface Antigen Negative for Syphilis (RPR) Negative for Anti-HIV-1/HIV-2 Negative for Anti-HCV Non-Reactive for HIV-1 (RNA) Non-Reactive for Hepatitis C (RNA)

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Reaction mass of: 5-Chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-Methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)	LD50 Oral	Rat	53 mg/kg	-

Irritation/Corrosion

There is no data available.

Sensitization

There is no data available.

Mutagenicity

There is no data available.

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.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.



Specific target organ toxic	v (repeated exposure)
There is no data available.	
Aspiration hazard	
There is no data available.	
Information on the likely routes of exposure	: Dermal contact. Eye contact. Ingestion.
Potential acute health effect	
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the phy	sical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No known significant effects or critical hazards.
Delayed and immediate effe	ts and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Long term exposure	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Potential chronic health eff	<u>cts</u>
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

There is no data available.



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Section 12. Ecological information

Not likely to pose a serious ecological hazard due to the size of the product and the quantity of material present.

Toxicity

There is no data available.

Persistence and degradability

There is no data available.

Bioaccumulative potential

There is no data available.

Mobility in soil

Soil/water partition : Not available. coefficient (K_{oc})

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

AERG : Not applicable.



Section 14. Transport information

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

U.S. Federal regulations	:	United States inventor	ry (TSC	A 8b): All con	ponents are l	isted or exemp	ted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	:	Not listed					
Clean Air Act Section 602 Class I Substances	:	Not listed					
Clean Air Act Section 602 Class II Substances	:	Not listed					
DEA List I Chemicals (Precursor Chemicals)	:	Not listed					
DEA List II Chemicals (Essential Chemicals)	:	Not listed					
SARA 302/304 Composition/information	on	ngredients					
No products were found. SARA 304 RQ SARA 311/312	:	Not applicable.					
Classification		Immediate (acute) healt	th hazar	ď			
Composition/information				-			
Name			⁻ ire nazard	Sudden release of	Reactive	Immediate (acute)	Delayed (chronic)

Indille		release of pressure		(acute) health	(chronic) health hazard
Reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	No.	No.	No.	Yes.	No.

SARA 313

There is no data available.

State	requ	lations

- **Massachusetts**
- **New York**
- **New Jersey**
- : None of the components are listed. : None of the components are listed.

: None of the components are listed.

- **Pennsylvania**
- : None of the components are listed.
- California Prop. 65

No products were found.

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200uL HIgG (10mg/mL)

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Section 16. Other information

Procedure used to derive the classification			
Classification	Justification		
SKIN IRRITATION - Category 2	Calculation method		
EYE IRRITATION - Category 2A	Calculation method		
SKIN SENSITIZATION - Category 1	Calculation method		

<u>History</u>	
Date of issue mm/dd/yyyy	: 04/30/2017
Date of previous issue	: 06/30/2015
Version	: 2
Prepared by	: KMK Regulatory Services Inc.

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