

## 6. Reagent D – Component of LONG®R<sup>3</sup> IGF-I Kit 9547

### Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) as amended  
SDS ID: REP-002

#### Section 1 – Identification of the substance/mixture and of the company/undertaking

##### 1.1 Product identifier

Material Name: Reagent D  
Contains: 0.003% CMIT/MIT  
Product Description: Kit Component  
Chemical Family: Isothiazolinones  
Substance Registration Number(s): This material is imported in amounts <1 ton/year. This product and the other components are not subject to REACH legislation.

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

Identified uses: Detection and quantification of Protein A  
Uses advised against: R&D use only

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

Repligen Corporation.  
41 Seyon Street, Building 1 Suite 100  
Waltham, MA 02453  
Phone: 1 (800) 622-2259  
E-mail: sales@repligen.com  
Fax: 1(781)-250-0115

1.4 Emergency telephone number: 1(800) 622-2259

#### Section 2 – Hazards Identification

##### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]  
Skin Sensitization - Category 1

##### 2.2 Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard Symbols:



Signal word: Warning

Hazard statements: GHS code H317 May cause allergic skin reaction.

## Precautionary statements

<b>Prevention:</b>	<b>GHS code P280</b> Wear protective gloves/protective clothing/eye protection/face protection. <b>GHS code P261</b> Avoid breathing dust/fume/gas/mist/vapours/spray.
<b>Response:</b>	<b>GHS code P305 +P351 +P338</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. <b>GHS code P302+P352</b> IF ON SKIN: Wash with plenty of soap and water. <b>GHS code P333+P313</b> If skin irritation or rash occurs: Get medical attention. <b>GHS code P362+P364</b> Take off contaminated clothing and wash before reuse.
<b>Storage:</b>	None needed according to classification criteria.
<b>Disposal:</b>	<b>GHS code P501</b> Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards** None known.

## Section 3 – Composition / Information on Ingredients

CAS EC No Registration No	Component Name Synonyms	1272/2008 (CLP)	Percent
55965-84-9 -- --	5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone	Acute Tox. (Oral) 3 - H301 Acute Tox. (Vapour) 3 - H331 Acute Tox. (Gas) 3 - H331 Acute Tox. (Dermal) 3 - H311 Acute Tox. (Dust/Mist) 3 - H331 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	0.003

Full text of H- and EUH-statements: see section 16.

## Section 4 – First Aid Measures

## 4.1 Description of first aid measures

Inhalation:	If adverse effects occur, remove to uncontaminated area. Get immediate medical attention.
Skin:	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor.
Eyes:	Flush eyes with plenty of water for at least 15 minutes. If eye irritation persists: Get medical attention.
Ingestion:	If swallowed, get medical attention. Do NOT induce vomiting.

#### 4.2 Most Important Symptoms/Effects

Acute:	May cause an allergic skin reaction.
Delayed:	No information on significant adverse effects.

#### 4.3 Indication of Immediate Medical Attention **and Special Treatment**

Treat symptomatically and supportively.

### Section 5 – Firefighting Measures

#### 5.1 Extinguishing media

Suitable extinguishing media:	Use foam, dry chemical, CO <sub>2</sub> , or water spray.
Unsuitable Extinguishing Media:	None known.

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

None known.

Combustion:	Decomposition products include oxides of carbon and low molecular weight hydrocarbons.
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#### 5.3 Advice for firefighters

Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products.

#### Fire Fighting Measures:

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

### Section 6 – Accidental Release Measures

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

Wear personal protective clothing and equipment, see Section 8.

#### 6.2 Environmental precautions:

Avoid release to the environment. Do not allow to enter into ground-water, surface water or drains.

#### 6.3 Methods and Materials for Containment and Cleaning Up:

Contain the discharged material with an inert absorbent material. Isolate hazard area. Keep unnecessary personnel away.

#### 6.4 Reference to other sections:

Safe handling: see section 7. Personal protection equipment (PPE): see section 8. Disposal: see section 13.

### Section 7 – Handling and Storage

#### 7.1 Precautions for safe handling:

Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wear eye/face protection. Wash thoroughly after handling.

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

Keep container tightly closed. Keep away from heat/sparks/open flame/hot surfaces - No smoking. Store at 2-8 °C.

#### Incompatible Materials:

Strong oxidizing agents, peroxides, acid, alkali

7.3 Specific end use(s): R&D Use Only.  
Section 8 – Exposure Controls/Personal Protection

### 8.1 Control parameters

#### Component Exposure Limits

5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone	55965-84-9
Austria:	0.05 mg/m <sup>3</sup> TWA [TMW ]
	skin notation
	Skin sensitizer

#### Component Biological

Exposure Limits: None of this product's components are on the list.  
Derived No Effect Levels (DNELs): No DNELs available.  
Predicted No Effect Concentrations (PNECs): No PNECs available.

### 8.2 Exposure Controls

Engineering controls: Provide adequate ventilation. Ensure compliance with applicable exposure limits.  
Eye/face protection: Wear safety goggles with a faceshield (EN 166).  
Skin Protection: Wear suitable protective clothing. Wash contaminated clothing before reuse (EN ISO 6529).  
Respiratory Protection: If engineering controls do not maintain airborne concentrations to a negligible level, an approved respirator must be worn (EN 137).  
Glove Recommendations: Wear suitable gloves (EN 374).

## Section 9 – Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance	Colorless liquid	Physical State	Not available
Odor	Not available	Color	Colorless , clear to light yellow
Odor Threshold	Not available	pH	7
Melting Point	Not available	Boiling Point	Not available
Boiling Point Range	Not available	Freezing point	Not available
Evaporation Rate	Not available	Flammability (solid, gas)	Not available
Autoignition Temperature	Not available	Flash Point	Not available
Lower Explosive Limit	Not available	Decomposition temperature	Not available

Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	Not available
Water Solubility	(soluble )	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Solubility (Other)	Not available
Density	Not available	Physical Form	liquid
Molecular Weight	Not available		

9.2 Other information No additional information is available.

## Section 10 – Stability and Reactivity

10.1 Reactivity: No reactivity hazard is expected.

10.2 Chemical stability: Stable at normal temperatures and pressure.

10.3 Possibility of hazardous reactions: Will not polymerize.

10.4 Conditions to avoid: Avoid contact with incompatible materials.

10.5 Incompatible materials: Strong oxidizing agents, peroxides, acids, alkalis

### 10.6 Hazardous decomposition Products

Decomposition products include oxides of carbon and low molecular weight hydrocarbons.

## Section 11 – Toxicological Information

### 11.1 Information on toxicological effects

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone (55965-84-9)  
Oral LD50 Rat 53 mg/kg

#### Product Toxicity Data

##### Acute Toxicity Estimate

Dermal	> 2000 mg/kg
Oral	> 2000 mg/kg

##### Irritation/Corrosivity Data:

May cause an allergic skin reaction.

##### Respiratory Sensitization:

No data available.

##### Dermal Sensitization:

May cause an allergic skin reaction.

##### Germ Cell Mutagenicity:

No data available.

##### Component Carcinogenicity:

None of this product's components are listed by IARC or DFG.

##### Reproductive toxicity:

No data available.

##### Specific Target Organ Toxicity – Single Exposure:

No target organs identified.

## Specific Target Organ Toxicity –

Repeated Exposure: No target organs identified.  
 Aspiration hazard No data available.

## Section 12 – Ecological Information

## 12.1 Toxicity:

## Component Analysis – Aquatic Toxicity:

No LOEL ecotoxicity data are available for this product's components.

12.2 Persistence and degradability: No information available for the product.

12.3 Bioaccumulative potential: No information available for the product.

12.4 Mobility in soil: No information available for the product.

## 12.5 Results of PBT and vPvB assessment:

No information available for the product.

## Section 13 – Disposal Considerations

13.1 Waste treatment methods: Dispose of contents/container in accordance with local/regional/national/international regulations.

Recycle if possible. EWC-code: 18 02 05\*.

No data available.

Release to the environment or sewage system is prohibited.

Dispose in accordance with all applicable regulations.

## Section 14 – Transport Information

		ADR	RID	ICAO	IATA	ADN	IMDG
14.1	UN Number	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2	UN Proper Shipping Name	--	--	--	--	--	--
14.3	Transport Hazard Class(es)	--	--	--	--	--	--
14.4	Packing Group	--	--	--	--	--	--
14.5	Environmental Hazards	--	--	--	--	--	--
14.6	Special Precautions For User	--	--	--	--	--	--
14.7	Transport in Bulk According to Annex II of MARPOL and the IBC Code	--	--	--	--	--	--
14.8	Additional	--	--	--	--	--	--

	information						
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Component Marine Pollutants (IMDG): Not a marine pollutant.  
 International Bulk Chemical Code: This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Section 15 – Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
 EU - REACH (1907/2006) - Annex XIV List of Substances Subject to Authorization

No components of this material are listed.

EU - REACH (1907/2006) - Article 59(1) Candidate List of Substances Subject to Authorization

No components of this material are listed.

EU - REACH (1907/2006) - Annex XVII Restrictions of Certain Dangerous Substances, Mixtures and Articles

No components of this material are listed.

EU - Substances Depleting the Ozone layer (1005/2009)

No components of this material are listed

EU - Persistent Organic Pollutants (850/2004)

No components of this material are listed

EU - Export and Import Restrictions (689/2008) - Chemicals and Articles Subject to Export Ban

No components of this material are listed

EU - Seveso III Directive (2012/18/EU) - Qualifying Quantities of Dangerous Substances

No components of this material are listed

EU - Plant Protection Products (1107/2009/EC)

No components of this material are listed

EU - Biocides (528/2012/EU)

No components of this material are listed

EU – Water Framework Directive (2000/60/EC)

No components of this material are listed

EU - Limitation of Emissions of Volatile Organic Compounds Due to the Use of Organic Solvents in Certain Activities and Installations (1999/13/EC)

No components of this material are listed

Germany Regulations

Germany Water Classification - Product  
 non-hazardous to water (nwg)

Germany Water Classification - Component

5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone (55965-84-9)

ID Number 2959, hazard class 3 - severe hazard to waters

Denmark Regulations

No components of this material are listed.

Component Analysis - Inventory

5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone (55965-84-9)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
No	DSL	No	No	Yes	Yes	No	Yes	No	Yes	Yes	No	Yes

## 15.2 Chemical Safety Assessment

**No chemical safety assessment has been carried out for the substance/mixture.**

## Section 16 – Other Information

## 16.1 Indication of changes

New SDS: 12 June 2017

## 16.2 Key / Legend :

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CFR - Code of Federal Regulations (US); CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC – European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KECI - Korea Existing Chemicals Inventory; KECL – Korea Existing Chemicals List; KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; NDSL – Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North



American; US - United States; VLE - Exposure Limit Value (Mexico); WHMIS - Workplace Hazardous Materials Information System (Canada)

#### 16.3 Key literature references and sources for data

Available upon request.

#### 16.4 Methods Used for Classification of Mixture According to Regulation (EC) No 1272/2008

Available upon request.

#### 16.5 Relevant H- and EUH-phrases

(Number and full text) and Notes:

H301 Toxic if swallowed  
H311 Toxic in contact with skin  
H314 Causes severe skin burns and eye damage  
H317 May cause allergic skin reaction  
H331 Toxic if inhaled  
H400 Very toxic to aquatic life  
H410 Very toxic to aquatic life with long lasting effects

#### 16.6 Training advice:

Read the Safety Data Sheet before handling product.

#### 16.7 Further Information

Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.