

# Reagent D – component of Protein A ELISA kit (9000-1)

## Material Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) as amended  
SDS ID: REP-002.1

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

#### 1.1 Product identifier

**Material Name:** Reagent D - component of Protein A ELISA kit (9000-1)  
**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. All other parts of the kit are non-hazardous and they don't require a Safety Data Sheet

#### 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:** Analytical use only

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

Repligen Sweden AB  
P.O. Box 965  
SE-220 09 Lund  
Sweden  
Phone: +46(0) 46 280 17 00  
E-mail: sales@repligen.com  
Fax: +46(0) 46 280 17 01

**1.4 Emergency telephone number:** +46 (0)707 54 98 23

### Section 2 – Hazards Identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Corrosion/Irritation - Category 1B  
Serious Eye Damage/Eye Irritation - Category 1  
Skin Sensitization - Category 1A  
Hazardous to the Aquatic Environment - Chronic - Category 3

#### 2.2 Label elements

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

##### Hazard Symbols:



**Signal word:**

Danger

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### Hazard statements:

**H314** Causes severe skin burns and eye damage.  
**H318** Causes serious eye damage.  
**H317** May cause allergic skin reaction.  
**H412** Harmful to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention:

**P280** Wear protective gloves/protective clothing/eye protection/face protection.  
**P260** Do not breathe dust/fume/gas/mist/vapours/spray.  
**P264** Wash thoroughly after handling.  
**P272** Contaminated work clothing should not be allowed out of the workplace.  
**P273** Avoid release to the environment.

#### Response:

**P304+P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
**P362+P364** Take off contaminated clothing and wash before reuse.  
**P301+P330+P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
**P310** Immediately call a POISON CENTER or doctor.  
**P321** Specific treatment (see label).

#### Storage:

**P405** Store locked up.

#### Disposal:

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

### Statement(s) of Unknown

#### Aquatic Toxicity:

99.1% of the mixture consists of ingredient(s) of unknown chronic aquatic toxicity.

### 2.3 Other hazards

The following effects are based on individual components of the kit.

## Section 3 – Composition / Information on Ingredients

CAS EC No Registration No	Component Name Synonyms	1272/2008 (CLP)	Percent
7732-18-5	Water		99.1

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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	0.9
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### Component Related Regulatory Information

The kit as a whole is not a hazardous substance or mixture. The information is provided for the hazardous component Reagent D.

### Section 4 – First Aid Measures

#### 4.1 Description of first aid measures

<b>Inhalation:</b>	If adverse effects occur, remove to uncontaminated area. Get immediate medical attention.
<b>Skin:</b>	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.
<b>Eyes:</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
<b>Ingestion:</b>	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

#### 4.2 Most Important Symptoms/Effects

<b>Acute:</b>	Severe skin burns, serious eye damage, allergic skin reaction
<b>Delayed:</b>	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

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

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

May explode if heated in closed container.

<b>Combustion:</b>	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.

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**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:

Store locked up.

Keep container tightly closed. Keep away from heat/sparks/open flame/hot surfaces - No smoking. Store at 2-8 °C. Store Reagent B at -20°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

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### 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

<b>Appearance</b>	Colorless liquid	<b>Physical State</b>	Not applicable
<b>Odor</b>	Not available	<b>Color</b>	Colorless , clear to light yellow
<b>Odor Threshold</b>	Not available	<b>pH</b>	7
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	Not available
<b>Boiling Point Range</b>	Not available	<b>Freezing point</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition Temperature</b>	Not available	<b>Flash Point</b>	Not available
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition temperature</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Vapor Density (air=1)</b>	Not available	<b>Specific Gravity (water=1)</b>	Not available
<b>Water Solubility</b>	(soluble )	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Solubility (Other)</b>	Not available

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Density	Not available	Physical Form	liquid
Molecular Weight	Not available		

### Section 10 – Stability and Reactivity

<b>10.1 Reactivity:</b>	No reactivity hazard is expected.
<b>10.2 Chemical stability:</b>	Stable at normal temperatures and pressure.
<b>10.3 Possibility of hazardous reactions:</b>	Will not polymerize.
<b>10.4 Conditions to avoid:</b>	Avoid contact with incompatible materials.
<b>10.5 Incompatible materials:</b>	Strong oxidizing agents, peroxides, acids, alkalis
<b>10.6 Hazardous decomposition Products:</b>	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

<b>Irritation/Corrosivity Data:</b>	Severe skin burns, serious eye damage
<b>Respiratory Sensitization:</b>	No data available.
<b>Dermal Sensitization:</b>	May cause an allergic skin reaction.
<b>Germ Cell Mutagenicity:</b>	No data available.
<b>Component Carcinogenicity:</b>	None of this product's components are listed by IARC or DFG.
<b>Reproductive toxicity:</b>	No data available.
<b>Specific Target Organ Toxicity – Single Exposure:</b>	No target organs identified.
<b>Specific Target Organ Toxicity – Repeated Exposure:</b>	No target organs identified.
<b>Aspiration hazard</b>	No data available.

### Section 12 – Ecological Information

**12.1 Toxicity:** Harmful to aquatic life with long lasting effects.

#### Component Analysis –

**Aquatic Toxicity:** No LOEL ecotoxicity data are available for this product's components

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- 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 specific 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	--	--	UN1760	UN1760	--	UN1760
14.2	UN Proper Shipping Name	--	--	CORROSIVE LIQUID, N.O.S.	CORROSIVE LIQUID, N.O.S.	--	CORROSIVE LIQUID, N.O.S.
14.3	Transport Hazard Class(es)	--	--	8	8	--	8
14.4	Packing Group	--	--	I	II	--	II
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	--	--	Contains: 5-Chloro-2-methyl-4-isothiazolin-3-one	5-Chloro-2-methyl-4-isothiazolin-3-one	--	Contains: 5-Chloro-2-methyl-4-isothiazolin-3-one

**Component Marine Pollutants (IMDG):** Not regulated as dangerous goods.

**International Bulk Chemical Code:** This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

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### 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

##### EU Detergent Regulation 648/2004/EC

No components of this material are listed

##### Germany Regulations

##### Germany Water Classification - Product

Hazard class 2 - hazard to waters

##### 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



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### 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

#### 16.2 Key / Legend :

New SDS: 10/05/2016

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

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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

Read the Safety Data Sheet before handling product.

### 16.6 Training advice:

### 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.