# SAFETY DATA SHEET

# Section 1: Identification of the chemical product and of the supplier

Identification of the chemical

Proteomic Stabilizer PROT1

product

Other means of identification

PROT1, PROT1-250ML, PROT1-1L, MTS1P-100/CS

Recommended use of the chemical and restrictions on use

**Recommended use** Stabilization of whole blood samples.

Recommended restrictions Research use only.

Manufacturer/Importer/Supplier/Distributor information
Distributor/Supplier IQVIA RDS CHILE

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call

For emergencies only call CHEMTREC: +56 2 2581 4934 (Santiago)

# **Section 2: Hazards identification**

Classification according to

NCh382

Not regulated as dangerous goods.

Label according Not available.

to NCh2190

Classification according to GHS

Physical hazards Not classified.

Health hazards Acute toxicity, oral

Acute toxicity, inhalation

Skin corrosion/irritation

Serious eye damage/eye irritation

Sensitization, skin

Germ cell mutagenicity

Category 1

Category 2

Category 1A

Category 2

Category 1

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Category 5

Specific target organ toxicity, repeated Category 2 (kidneys)

exposure (oral)

**Environmental hazards** Hazardous to the aquatic environment, acute Category 3

hazard

Label elements



Signal word

Danger

May be harmful if swallowed. Toxic if inhaled. Causes skin irritation. Causes serious eye damage. **Hazard statement** 

May cause an allergic skin reaction. Suspected of causing genetic defects. May cause cancer. May cause respiratory irritation. May cause damage to organs (kidneys) through prolonged or

repeated exposure by ingestion. Harmful to aquatic life.

**Precautionary statement** 

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe mist/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye

protection/face protection.

IF exposed or concerned: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If Response

skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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/doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a poison center/doctor.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Storage

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

Safety signs according to NCh1411/4



Specific classification

Not applicable.

Not applicable.

Specific label

Not applicable.

**Description of hazards** 

May be harmful if swallowed. Toxic if inhaled. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. May cause cancer. May cause respiratory irritation. May cause damage to organs (kidneys) through prolonged or

repeated exposure by ingestion. Harmful to aquatic life.

**Description of specific hazards** 

Other hazards None known.

### Section 3: Composition/information on ingredients

# Mixture

Systematic chemical name	Concentration range	CAS number
Diethylene glycol	3 - 7	111-46-6
Formaldehyde	3 - 7	50-00-0
Sodium chloride	1 - 3	7647-14-5

All concentrations are in percent by weight unless otherwise indicated.

Components not listed are either non-hazardous or are below reportable limits.

### Section 4: First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

proper respiratory medical device. Call a poison center or doctor/physician.

Remove contaminated clothing immediately and wash skin with soap and water. In case of Skin contact

eczema or other skin disorders: Seek medical attention and take along these instructions.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Get medical advice/attention if you feel unwell.

**Expected acute effects** Skin irritation. Causes serious eye damage. Sensitization. Respiratory tract irritation.

**Expected delayed effects** Suspected of causing genetic defects. May cause cancer. Kidney injury may occur.

Skin irritation. May cause redness and pain. Severe eye irritation. Symptoms may include stinging, Most important tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could symptoms/effects

result. May cause respiratory irritation. May cause an allergic skin reaction. Dermatitis. Rash.

Prolonged exposure may cause chronic effects.

Proteomic Stabilizer PROT1 SDS Chile

3/7

### Protection for first-aid providers

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection).

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

#### Special notes for treating physician

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

under observation. Symptoms may be delayed.

# Section 5: Fire-fighting measures

**Extinguishing media** 

Use fire-extinguishing media appropriate for surrounding materials.

Inappropriate extinguishing

media

No restrictions known.

**Products formed during** combustion and thermal degradation

Carbon oxides. Sodium oxides. Potassium oxides. Chlorine compounds.

Specific associated hazards Specific extinguishing

methods

During fire, hazardous combustion products are released that may include: Carbon oxides. Use standard firefighting procedures and consider the hazards of other involved materials.

**Precautions for emergency** personnel and/or firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

# Section 6: Accidental release measures

Personal precautions

Keep unnecessary personnel away. Wear appropriate personal protective equipment.

**Protective equipment** 

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

**Emergency procedures** 

Clean up in accordance with all applicable regulations.

**Environmental precautions** Methods and material for

Avoid discharge into drains, water courses or onto the ground.

containment, confinement, and/or abatement

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Retain and dispose of contaminated wash water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the

### Methods and materials for clean-up

Recovery Never return spills to original containers for re-use.

Not applicable. Neutralization

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of Final disposal

contents/container in accordance with local/regional/national/international regulations.

Additional measures for preventing disasters

Avoid release to the environment.

## Section 7: Handling and storage

#### Handling

Precautions for safe

handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapors. Do not get this material in contact with eyes. Avoid contact with skin and clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Operational and technical

measures

Provide adequate ventilation.

Other precautions

Avoid release to the environment.

Proteomic Stabilizer PROT1 SDS Chile 951322 Version #: 01 Issue date: 19-February-2022 Revision date: -

Prevention of contact

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Contaminated work clothing should not be allowed out of the workplace.

Storage

Conditions for safe

storage

Store locked up. Keep container tightly closed. Store in a well-ventilated place. Store away from

incompatible materials (see Section 10 of the SDS).

Technical measures
Incompatible substances

and mixtures

Strong oxidizing agents.

No specific recommendations.

Materials for containers

and/or packaging

Store in original tightly closed container.

# Section 8: Exposure controls/personal protection

#### Maximum permissible concentration

Chile. OELs. Decree No. 594, arts. 61 & 66: Regulating Basic Health and Environmental Conditions in the Workplace and

Setting Permissible Levels of Exposure to Chemical and Physical Agents

 Components
 Type
 Value

 Formaldehyde (CAS 50-00-0)
 LPA
 0.37 mg/m3

 0.3 ppm
 0.3 ppm

**US. ACGIH Threshold Limit Values** 

Components Type Value

Formaldehyde (CAS STEL 0.3 ppm 50-00-0)

TWA 0.1 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Individual protection measures, such as personal protective equipment

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Chemical respirator with organic vapor

cartridge and full facepiece. Check with respiratory protective equipment suppliers.

**Hand protection** Wear appropriate chemical resistant gloves. Nitrile or neoprene gloves are recommended.

material thickness: 3.9 mmbreak through time: 120 min

Other suitable gloves can be recommended by the glove supplier.

Eye protection When working with liquids wear splash-proof chemical goggles and face shield unless full

facepiece respiratory protection is worn.

**Skin and body protection** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Engineering measures**Good general ventilation should be used. Ventilation rates should be matched to conditions. If

applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Eye wash facilities and emergency

shower must be available when handling this product.

# Section 9: Physical and chemical properties

**Appearance** 

Physical state Liquid.
Form Liquid.
Color Colorless.
Odor Formaldehyde.

**pH** 7.8

**Melting point/freezing point** Property has not been measured.

Initial boiling point and boiling 21

range

212 °F (100 °C)

Flash point Does not flash.

Explosivity limits Not available.

Vapor pressure Property has not been measured.

Relative density Property has not been measured.

Proteomic Stabilizer PROT1 SDS Chile

**Density** Not available.

Solubility(ies)

Solubility (water) Miscible in water.

Partition coefficient Not applicable, product is a mixture.

(n-octanol/water)

Auto-ignition temperature Not applicable.

**Decomposition temperature** Property has not been measured.

Odor threshold Not determined.

**Evaporation rate** Property has not been measured.

Flammability (solid, gas) Not applicable.

Viscosity 1 cP (77 °F (25 °C))

### Section 10: Stability and reactivity

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# **Section 11: Toxicological information**

#### Information on toxicological effects

Acute toxicity May be harmful if swallowed. Toxic if inhaled.

Components Species Test Results

Diethylene glycol (CAS 111-46-6)

<u>Acute</u>

Dermal

LD50 Rabbit 11890 mg/kg

Formaldehyde (CAS 50-00-0)

**Acute** 

Inhalation

Vapor

LC50 Rat < 0.58 mg/l, 4 Hours

460 mg/kg

Oral

LD50

Other

Other

LD50 Rabbit 270 mg/kg

Skin corrosion/irritation

Serious eye damage/eye

Causes serious eye damage.

Causes skin irritation.

irritation

# Respiratory or skin sensitization

## **ACGIH** sensitization

Formaldehyde (CAS 50-00-0)

Dermal sensitization

Respiratory sensitization

Respiratory sensitization

Skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Does not meet classification criteria.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

Rat

Carcinogenicity May cause cancer.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - May of

single exposure

May cause respiratory irritation.

**Specific target organ toxicity -** May cause damage to organs (kidneys) through prolonged or repeated exposure by ingestion.

repeated exposure

Proteomic Stabilizer PROT1 SDS Chile

951322 Version #: 01 Revision date: - Issue date: 19-February-2022

951322 Version #: 01 Issue date: 19-February-2022 Revision date: -

**Aspiration hazard** 

Not an aspiration hazard.

Related symptoms

Skin irritation. May cause redness and pain. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. May cause an allergic skin reaction.

Dermatitis. Rash. Prolonged exposure may cause chronic effects.

## Section 12: Ecological information

Harmful to aquatic life. **Ecotoxicity** 

Components		Species	Test Results
Formaldehyde (CAS 5	60-00-0)		
Aquatic			
Algae	EC50	Desmodesmus subspicatus	3.48 mg/l, 72 hours
Crustacea	LC50	Daphnia pulex	5.8 mg/l, 48 hours
Fish	LC50	Morone saxatilis	6.7 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

**Bioaccumulative potential** 

No data available on bioaccumulation.

Mobility in soil This product is miscible in water. Expected to be mobile in soil.

### Section 13: Disposal considerations

Remains/residues

Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated container, packaging and contaminated materials

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

**Contaminated materials** 

Dispose in accordance with all applicable regulations.

# **Section 14: Transport information**

## Classification according to NCh382

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

# Section 15: Regulatory information

NCh.382/2013 - Hazardous materials - Classification **National regulations** 

NCh.2190/2003 - Transportation of hazardous substances - Signs for risk identification

NCh.1411/4/1978 - Safety signs for risk identification NCh.2245/2015 - Safety Data Sheet for chemicals

D.S. 594/1999 - Decree Regulating Basic Health and Environmental Conditions in the Workplace

D.S. 298/1994 - Regulates the road transportation of hazardous substances D.S. 148/2003 - Health Regulations on Hazardous Waste Management

D.S. 43/2015 - Storage of hazardous substances

Controlled chemical substances susceptible to manufacturing of narcotics and psychotropic drugs, Lists I, II, III (Decree 1358, published April 17, 2007)

Prohibited Substances (Reg. 594/1999, art. 65, as of Nov. 8, 2012)

Not listed.

### International regulations

**Stockholm Convention** 

Not applicable.

**Rotterdam Convention** 

Not applicable.

**Montreal Protocol** 

Not applicable.

**Kyoto protocol** 

Not applicable.

Proteomic Stabilizer PROT1 SDS Chile

951322 Version #: 01 Revision date: -Issue date: 19-February-2022

#### **Basel Convention**

Not applicable.

#### **Section 16: Other information**

**List of abbreviations** EC50: Effective Concentration, 50%.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG Code: International Maritime Dangerous Goods Code.

LC50: Lethal Concentration 50%.

LD50: Lethal Dose, 50%.

MARPOL: International Convention for the Prevention of Pollution from Ships.

STEL: Short-Term Exposure Limit. TWA: Time Weighted Average Value.

References ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

EPA: AQUIRE database

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity

NLM: Hazardous Substances Data Base

National Toxicology Program (NTP) Report on Carcinogens

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