
Cell Isolation Reagents Safety Data Sheet v1.0

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name: Cell Isolation Reagents, Various

Product Number: Various

Brand : S2 Genomics

Products covered under this document:

Product Number	Product Description
100-064-304	Mouse Brain Reagent, 20 mL
100-064-413	Mouse Lung Reagent, 20 mL
100-064-522	Mouse Liver Reagent, 20 mL
100-064-631	Mouse Kidney Reagent, 20 mL
100-064-740	Mouse Spleen Reagent, 20 mL
100-064-849	Mouse Intestine Reagent, 20 mL
100-253-846	Mouse Heart Reagent, 20 mL
100-254-082	Mouse Skin Reagent, 20 mL
100-253-955	Pan Tumor Reagent, 20 mL
100-064-958	Rat Brain Reagent, 20 mL
100-065-085	Rat Lung Reagent, 20 mL
100-065-194	Rat Liver Reagent, 20 mL
100-065-403	Rat Kidney Reagent, 20 mL
100-065-312	Rat Spleen Reagent, 20 mL

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

Identified uses : Life Science Research Applications

1.3 Details of the supplier of the safety data sheet

Company: S2 Genomics, Inc.
7683 Southfront Rd., Suite 200
Livermore, CA 94551-9409

Telephone: +1 925-292-8243

1.4 Emergency telephone number

Emergency Phone #: +1-703-527-3887 (CHEMTREC)

1.5 Component	Common Name/Trade Name	Source	CAS Number	EC Number
	Collagenase I, IV	(<i>Cl. histolyticum</i>)	9001-12-1	3.4.24.3
	Elastase	(porcine pancreas)	39445-21-1	3.4.21.36
	Neutral Protease (Dispase®)	(<i>B. polymyxa</i>)	42613-33-2	3.4.24.28

Papain	(papaya latex)	9001-73-4	3.4.22.2
EDTA		6381-92-6	200-449-4
L-Cysteine (* 100-064-304, 100-064-958 only)		52-90-4	200-158-2

2. HAZARDS IDENTIFICATION

OSHA Hazard Classification(s): Skin and respiratory sensitizer, Irritant

* **OSHA Hazard Classification** (29 CFR 1910.1200) (100-064-304, 100-064-958 only)

2.1 GHS Classification

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Respiratory sensitization (Category 1), H334

Skin sensitization (Category 1)

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

* 100-064-304, 100-064-958 only

Acute Oral toxicity Category 4

Skin corrosion/irritation Category 2

Specific target organ toxicity (single exposure) Category 3

Target organs – Respiratory system

Signal word: Warning

2.2 Hazard statement(s):

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

* Harmful if swallowed (100-064-304, 100-064-958 only)

Pictogram(s):



Precautionary statement(s)

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P280: Wear protective gloves.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

HMS Classifications:

Health hazard: 3

Chronic Health Hazard: Unknown, allergic reactions may develop in certain sensitive individuals.

Flammability: 0

Physical hazards: 0

NFPA Ratings:

Health hazard: 3

Fire: 0

Reactivity Hazard: 0

Potential Health Effects:

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin, eye or respiratory irritation upon contact.

Medical Conditions Generally Aggravated by Exposure: Allergy-prone and asthmatic individuals should be particularly cautious with enzymes and other materials of biologic origin.

Chemical & common name(s): Enzymes, Proteins

Chemical Family Name (In-plant Common Name): Protein(s)/Enzyme(s), Complex Polypeptides/Nucleotides

Ingredient Name(s): Refer to Section 1

CAS Number(s): Refer to Section 1

EC Number(s): Refer to Section 1

Biologic Activity: Varies (%)

Emergency and First Aid Procedures:

General advice: Enzymes/Proteins may cause allergic reactions in certain sensitive individuals.

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of contact area.

3. Handling. Wear appropriate protective equipment.

Storage: Refer to specific product label for storage conditions. Lyophilized proteins will absorb moisture under high humidity and/or moisture conditions. Keep containers tightly closed when not in use and store in a cool, dry area according to label conditions. Long-term storage temperatures should not exceed 25°C for maximum stability.

OSHA Permissible Exposure Limits (PELS): None

ACGIH Threshold Limit Value: None

I.A.R.C. Monographs: None

National Toxicology Program: None

Chemical Listed as Carcinogen or Potential Carcinogen: None

Other Exposure Limit Use: Unknown

Engineering (General): Exhaust Vent Fan **Local Exhaust:** Advisable **Special:** None

Respiratory Protection (Specify Type): A protective dust mask or approved respirator is advisable to avoid breathing particulates when a powdered form of the product is being handled.

Skin and Body Protection: Wear gloves and lab coat to prevent skin contact. Use proper glove removal technique (without touching their outer surface) to avoid skin contact with these products. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection: Either safety glasses or goggles should be worn.

Other Protective Clothing or Equipment: Sensitive individuals should wear dust masks/respirators, protective gloves, eye protection, lab coat, apron or other protective clothing to minimize contact.

Appearance and Odor: Powders - White to tan, typical enzyme odor

Liquids - White to brown, typical enzyme odor

Odor Threshold: No Data Available

Flammability: No Data Available

Flash Point: No Data Available

Lower/Upper Explosion Limits: No Data Available

Auto/Ignition Temperature: No Data Available

Decomposition Temperature: No Data Available

Solubility in Water: Powders-Appreciable

Liquids readily miscible in water

Boiling Point/Range: No Data Available ; Denatures

Specific Gravity/Density(H₂O=1): Varies

Vapor Density(Air=1): No Data Available

Vapor Pressure (mmHg): No Data Available

pH: No Data Available

Freezing/Melting points: No Data Available

Water Solubility: Varies; Generally Soluble

Evaporation Rate: No Data Available

Viscosity: Concentration Dependent

Partition Coefficient (n-octanol/water): No Data Available

Reactivity: None Known

Chemical Stability: Stable Under Recommended Storage Conditions

Hazardous Decomposition Products: None Known

Hazardous Polymerization: Will Not Occur

4. Incompatibility (Materials to Avoid): None Known

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Always follow Good Laboratory and Industrial Hygiene Practices and wear proper personal protective equipment when handling chemicals. May cause irritation and/or allergic reaction(s).

5. Acute Toxicity

Oral LD50: No Data Available

Inhalation LC50: No Data Available

Dermal LD50 No Data Available

Other information on acute toxicity No Data Available

Skin corrosion/irritation No Data Available

Serious eye damage/eye irritation No Data Available

Respiratory or skin sensitization May cause allergic respiratory and skin reactions

Carcinogenicity

IARC/ACGIH/ NTP/OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

Reproductive toxicity No Data Available

Teratogenicity No Data Available

Aspiration hazard: No Data Available

Synergistic effects: No Data Available

Specific target organ toxicity - single exposure (GHS): May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (GHS): May cause allergic reactions.

Potential Health Effects:

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin, eye or respiratory irritation upon contact.

Eyes: May cause eye irritation.

Ingestion May be harmful if swallowed

Medical Conditions Generally Aggravated by Exposure: Allergy-prone and asthmatic individuals should be particularly cautious with enzymes and other materials of biologic origin. No data available. No environmental hazard is known. Dispose of waste in accordance with all applicable Federal, State and local regulations. Chemical residues are generally classified as special waste and, as such, the transportation, storage, treatment and disposal of this waste material must be conducted in compliance with all applicable Federal, State and local regulations. Rinse empty containers thoroughly before disposal and/or recycling.

DOT (US): Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

US Federal Regulations: Material(s) listed are exempt from the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory when supplied for research and development purposes or used under the supervision of a technically qualified individual as defined by 40CFR720.3. The health risks have not been fully determined.

OSHA Hazards: Skin and respiratory sensitizer, Irritant

6. First-aid Measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Obtain medical attention.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms/effects No information available.

Product Code: Cell Isolation Reagents, Various
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Notes to Physician **Treat symptomatically**

7. Disclaimer

The information contained in this SDS relates only to the material(s) designated and does not relate to use(s) in combination with any other material, process(es) and/or chemical reaction(s). S2 Genomics, Inc. provides this information in good faith, from sources believed to be accurate, however, assumes no liability for its accuracy or completeness. All S2 Genomics products are supplied for research and laboratory use only. Researchers and laboratory personnel intending to use any of these products for medical investigation on humans are solely responsible for such use and for compliance with the pertinent regulations of the United States Food & Drug Administration (US-FDA) and other regulations. We do not assume liability for damages resulting from the handling, use and/or disposal of these products, from their use in violation of patent or other rights or reliance upon this information.