

MATERIAL SAFETY DATA SHEET

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SECTION 1: CHEMICAL IDENTIFICATION

Code: PC0713-250MG; PC0713-500MG; PC0713-1G

Name: Ribonuclease A (RNase A)

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: CAS NO.: EC NO.: %
Nuclease, ribo- 9001-99-4 232-646-6 >70

SECTION 3: HAZARDS IDENTIFICATION GHS Classification

Respiratory Sensitizer – Category 1B Skin Sensitizer – Category 1B

GSH Label elements, including precautionary statements





Signal word: Warning

Hazard statements

H317 Causes an allergic skin reaction.

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

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Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face

protection

P302 + P352 If on skin, wash with plenty of soap and water

P304 + P340 If inhaled, remove victim to fresh air and keep at rest in a position

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.

SECTION 4: FIRST-AID MEASURES

In case of eye contact, rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.

In case of skin contact, wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

In case of inhalation, move to fresh air. If not breathing, give artificial respiration. If breathing becomes difficult, give oxygen.

In case of ingestion, clean mouth with water and later drink plenty of water. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Not flammable.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH and full protective gear.

Hazardous decomposition products formed under fire conditions: No information available

Flash point: Not determined. Explosion data – sensitivity to mechanical impact: Not sensitive. Explosion data – sensitivity to static discharge: Not sensitive.

SECTION 6: ACCIDENTAL RELEASE MEASURES

For personal precautions, use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

For environmental precautions, prevent further leakage or spillage if safe to do so.

For cleaning up, spilled material should be carefully wiped up or moistened with water and removed. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

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SECTION 7: HANDLING AND STORAGE

Handle in accordance with good industrial hygiene and safety practice. Protect from light. Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection If exposure limits are exceeded or irritation is experienced,

NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Eye/Face protection Use safety goggles with side-shields. Skin and body protection Wear protective gloves/ clothing.

Use engineering measures such as showers, eyewash stations and ventilation systems.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White

Physical state: Lyophilized powder Odor: No information available Odor threshold: No information available Density: No information available pH: No information available Melting point: No information available Freezing point: No information available Initial Boiling point: No information available Boiling point: No information available

Flash point: Not applicable Autoignition temperature: No data available

Decomposition temperature: No information available

Upper Flammability limit in air:

No data available
Lower Flammability limit in air:

No data available

Explosive properties: No information available Oxidizing properties: No information available

Solubility: Water-soluble
Partition coefficient (n-octanol/water): No data available
Vapor pressure: No data available
Vapor density: No data available
Evaporation rate: No data available
Specific gravity: No data available

Viscosity: No information available

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SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Materials to avoid: None known based on information supplied.

Hazardous decomposition products: Carbon oxides.

Hazardous polymerization: Hazardous polymerization does not occur. Conditions to avoid: None known based on information supplied.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Sensitizer.

Chronic toxicity

No known effect based on information supplied.

Target Organ Effects: Kidneys.

SECTION 12: ECOLOGICAL INFORMATION

The environmental impact of this product has not been fully investigated.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose waste material in accordance with all federal, state and local environmental regulation. For contaminated packing, dispose as waste material.

SECTION 14: TRANSPORT INFORMATION

DOT

Not regulated.

IATA

Not regulated.

SECTION 15: REGULATORY INFORMATION

International Inventories

TSCA Complies EINECS/ELINCS Complies

ENCS Does not comply

IECSC Complies

KECL Does not complyPICCS Does not complyAICS Does not comply

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U.S Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulation, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutant (HAPs) under Section 112 of the Clean Air Act Amendments of 1990.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico – Grade

No information available.

WHMIS Hazard Class

D2A Very toxic materials D2B Toxic materials



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SECTION 16: OTHER INFORMATION

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