

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 12/15/2014 Version: 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance

Trade name : RIBONUCLEASE A HIGH PURITY (BOVINE PANCREAS)

CAS No : 9001-99-4
Product code : AB12038

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

Use of the substance/mixture : Laboratory use/Manufacturing component/Research

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

AmericanBio, Inc.

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## 1.4. Emergency telephone number

Emergency number : 855.835.2572 (U.S.) :: 760.602.8703 (Outside U.S.)

# **SECTION 2: Hazards identification**

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

#### Classification (GHS-US)

Not classified

#### 2.2. Label elements

#### **GHS-US** labeling

No labeling applicable

#### 2.3. Other hazards

No additional information available

# 2.4. Unknown acute toxicity (GHS-US)

No data available

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substance

Name	Product identifier	%	Classification (GHS-US)
RIBONUCLEASE A HIGH PURITY (BOVINE PANCREAS) (Main constituent)	(CAS No) 9001-99-4	100	Not classified

Full text of H-phrases: see section 16

# 3.2. Mixture

Not applicable

# SECTION 4: First aid measures

# 4.1. Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. Assure

fresh air breathing. Allow the victim to rest.

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First-aid measures after skin contact : Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists. Remove affected clothing and wash all exposed skin area with mild soap and water,

followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Take victim to an ophthalmologist if irritation persists. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

First-aid measures after ingestion : Rinse mouth with water. Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Call Poison Information Centre (www.big.be/antigif.htm).

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

# 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : No data available. Not expected to present a significant hazard under anticipated conditions of

normal use

## 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

suitable extinguishing media : EXTINGUISHING MEDIA FOR SURROUNDING FIRES: All extinguishing media allowed. Foam.

Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : No unsuitable extinguishing media known. Do not use a heavy water stream.

# 5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD. Non combustible.

Explosion hazard : DIRECT EXPLOSION HAZARD. No data available on direct explosion hazard. INDIRECT

EXPLOSION HAZARD. No data available on indirect explosion hazard.

Reactivity : On burning: release of toxic and corrosive gases/vapours (nitrous vapours).

# 5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to

fire/heat: have neighbourhood close doors and windows.

Firefighting instructions : Dilute toxic gases with water spray. Use water spray or fog for cooling exposed containers.

Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter

environment.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus. Do not enter fire area without proper

protective equipment, including respiratory protection.

# SECTION 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.

Emergency procedures : Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash

contaminated clothes. Evacuate unnecessary personnel.

Measures in case of dust release : In case of dust production: keep upwind. Dust production: have neighbourhood close doors and

windows.

# 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

# 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

# 6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers. Plug the leak, cut off the supply.

Knock down/dilute dust cloud with water spray.

Methods for cleaning up : Prevent dust cloud formation. Solid spill: cover with sand/earth. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. On land, sweep or shovel

into suitable containers. Minimize generation of dust. Store away from other materials.

## 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Avoid raising dust. Keep away from naked flames/heat. Reduce/avoid exposure and/or contact. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight.

Keep container closed when not in use.

Incompatible products : Strong bases. strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage temperature : -20 °C

Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources.

Prohibitions on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. moisture.

Storage area : Store in a dry area. To be kept quick-frozen. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: closing, watertight, dry. clean, correctly labelled, meet the legal

requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: glass.

# 7.3. Specific end use(s)

No additional information available

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

No additional information available

## 8.2. Exposure controls

Flammability (solid, gas)

Personal protective equipment : Avoid all unnecessary exposure.

Materials for protective clothing : GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: No data

available. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data

available

Hand protection : Gloves. Wear protective gloves.

Eye protection : Safety glasses. In case of dust production: protective goggles. Chemical goggles or safety

glasses.

Skin and body protection : Protective clothing.

Respiratory protection : Dust formation: dust mask. Wear approved mask.

Other information : When using, do not eat, drink or smoke.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid. Powder.

Molecular mass : 13700 g/mol Color : White.

Odor : No data available on odour.

Odor threshold No data available pΗ No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point No data available Freezing point : No data available Boiling point : No data available Flash point : Not applicable Self ignition temperature : No data available Decomposition temperature : No data available

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: No data available

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Vapor pressure : No data available
Relative vapor density at 20 °C : No data available
Relative density : No data available
Solubility : Soluble in water.
Water: soluble
Log Pow : No data available

Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosive limits : No data available

# 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

On burning: release of toxic and corrosive gases/vapours (nitrous vapours).

## 10.2. Chemical stability

Unstable on exposure to moisture. Not established.

# 10.3. Possibility of hazardous reactions

Not established.

## 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

# 10.5. Incompatible materials

strong acids. Strong bases.

# 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

: Not classified Acute toxicity Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitization : Not classified Germ cell mutagenicity Not classified Carcinogenicity : Not classified : Not classified Reproductive toxicity Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - air : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

Ecology - water : Mild water pollutant (surface water). No data available on ecotoxicity.

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#### 12.2. Persistence and degradability

# RIBONUCLEASE A HIGH PURITY (BOVINE PANCREAS) (9001-99-4)

Persistence and degradability Biodegradability in water: no data available. Not established.

## 12.3. Bioaccumulative potential

# RIBONUCLEASE A HIGH PURITY (BOVINE PANCREAS) (9001-99-4)

Bioaccumulative potential No bioaccumulation data available. Not established.

# 12.4. Mobility in soil

No additional information available

# 12.5. Other adverse effects

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dissolve or mix with a combustible solvent. Remove to an authorized incinerator equipped with

an afterburner and a flue gas scrubber with energy recovery. Dispose in a safe manner in

accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

In accordance with DOT

No dangerous good in sense of transport regulations

#### **Additional information**

Other information : No supplementary information available.

# **ADR**

Transport document description : UN N/A
Packing group (ADR) : N/A
Hazard identification number (Kemler No.) : N/A
Classification code (ADR) : N/A

#### Transport by sea

No additional information available

# Air transport

No additional information available

## **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

# RIBONUCLEASE A HIGH PURITY (BOVINE PANCREAS) (9001-99-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## 15.2. International regulations

# **CANADA**

No additional information available

# **EU-Regulations**

No additional information available

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

Not classified

# Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

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## 15.2.2. National regulations

No additional information available

## 15.3. US State regulations

No additional information available

# **SECTION 16: Other information**

Other information : None.

SDS US (GHS HazCom 2012)

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