

# **MATERIAL SAFETY DATA SHEET**

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

# **Product identifiers**

Product name: Product number: Collagenase type II (Worthington – USA origin) LS0004174, LS0004176, LS0004177

Brand:

PAN Biotech

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

Identified uses:

Laboratory chemicals, Manufacture of substances

# Details of the supplier of the safety data sheet

Company

PAN Biotech GmbH Am Gewerbepark 13 94501 Aidenbach GERMANY

+49-(0)8543-6016-30 +49-(0)8543-6016-49 info@pan-biotech.de

Telephone:	
Fax:	
E-mail:	

# **Emergency telephone number**

Emergency phone:

+49-(0)8543-6016-30 or +49 151 51557123

# 2. HAZARDS INDENTIFICATION

Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Skin irritation (Category 2)

Eye irritation (Category 2)

Respiratory sensitization (Category 1)

Specific target organ toxicity - single exposure (Category 3)

#### Label elements Labeling according Regulation (EC) No 1272/2008

Pictogram



Signal word:

Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ 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.

Supplemental Hazard Statements None

# Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

According to Regulation [EC] No. 1907/2006 Version 1.2 Revised 20/03/2018



# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# Substances

Collagenase	
CAS-No.	EC-No.
9001-12-1	232-582-9

**Index-No.** 647-014-00-9 Classification Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; STOT SE 3; H315, H319, H334, H335 Concentration <= 100%

# 4. FIRST AID MEASURES

#### **Description of first aid measures General advice** Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician. In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# 5. FIREFIGHTING MEASURES

Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special hazards arising from the substance or mixture Nature of decomposition products not known. Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary. Further information no data available

### 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

# 7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. **Conditions for safe storage, including any incompatibilities** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2 - 8 °C **Specific end uses** no data available

# EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters Components with workplace control parameters Exposure controls

8.

According to Regulation [EC] No. 1907/2006 Version 1.2 Revised 20/03/2018



## Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# Personal protective equipment

# Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

# Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

# Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

# **Body Protection**

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

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Appearance form	liquid			
Odour	no data available			
Odour Threshold	no data available			
рН	no data available			
Melting point/freezing point	no data available			
Initial boiling point and boiling range	no data available			
Flash point	no data available			
Evaporation rate	no data available			
Flammability (solid, gas)	no data available			
Upper/lower flammability or explosive limits	no data available			
Vapour pressure	no data available			
Vapour density	no data available			
Relative density	no data available			
Water solubility	no data available			
Partition coefficient: n-octanol/water	no data available			
Autoignition temperature	no data available			
Decomposition temperature	no data available			
Viscosity	no data available			
Explosive properties	no data available			
Oxidizing properties	no data available			

# 10. STABILITY AND REACTIVITY

Reactivity
Chemical stability
Possibility of hazardous reactions
Conditions to avoid
Incompatible materials
Hazardous decomposition products

no data available no data available no data available no data available Strong oxidizing agents Other decomposition products - no data available

### 11. TOXICOLOGICAL INFORMATION

Information on toxicological effectsAcute toxicityno data availableSkin corrosion/irritationno data availableSerious eye damage/eye irritationno data availableRespiratory or skin sensitizationMay cause allergic respiratory reaction.Germ cell mutagenicityno data available

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### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. **Reproductive toxicity** no data available Specific target organ toxicity - single exposure May cause respiratory irritation. Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available Potential health effects Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Indestion May be harmful if swallowed. May be harmful if absorbed through skin. Causes skin irritation. Skin Eyes Causes serious eye irritation. Signs and Symptoms of Exposure Prolonged or repeated exposure can cause: asthma Additional Information

**RTECS:** Not available

#### 12. **ECOLOGICAL INFORMATION**

Toxicity	no data available			
Persistence and degradability				
Bioaccumulative potential				
Mobility in soil				
Results of PBT and vPvB assessment				
Other adverse ef	ffects			

no data available no data available no data available no data available no data available

#### 13. **DISPOSAL CONSIDERATIONS**

# Waste treatment methods

# Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Contaminated packaging

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

UN number ADR/RID: - UN proper shipping name ADR/RID: not dangerous goods Transport hazard class(es) ADR/RID: - Packaging group ADR/RID: - Environmental hazards ADR/RID: no	IMDG: - IMDG: not dangerous goods IMDG: - IMDG: - IMDG Marine pollutant: no	IATA: - IATA: not dangerous goods IATA: - IATA: - IATA: no
ADR/RID: no Special precautions for user	IMDG Marine pollutant: no no data available	IATA: no

#### 15. **REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture no data available **Chemical Safety Assessment** 

no data available

#### 16. **OTHER INFORMATION**

### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. PAN Biotech GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. See www.panbiotech.com or reverse side of invoice or packing slip for additional terms and conditions of sale.