

SAFETY DATA SHEET

Mucolyse

Identification of the substance/preparation and 1. company/undertaking

Identification of the substance or preparation

Product name : Mucolyse Code **Trade name** Mucolyse: PL701

Use of the substance/preparation Mucolyse is a sputum liquefying agent used to digest and thin out the sputum, thus

enhancing the isolation of organisms responsible for chronic lung disease.

Company/undertaking identification

: Pro-Lab Diagnostics, 20 Mural Street, Unit 4, Richmond Hill, ON, Canada L4B 1K3 Supplier/Manufacturer

Tel: +1-905-731-0300 Fax: +1-905-731-0206 www.pro-lab.com

: +44 (0)151 353 1613 - Monday to Friday 9:00 am to 5:00 pm. **Emergency telephone number**

+44 (0)7714 429 646 - Outside the above hours.

Composition/information on ingredients

Substance/preparation : Preparation

-7 Xi; R36/37/38 -7 Xn; R20/21/22 Xi; R36/37/38

Occupational exposure limits, if available, are listed in section 8.

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xi; R36/37/38

Human health hazards : Irritating to eyes, respiratory system and skin.

See section 11 for more detailed information on health effects and symptoms.

First-aid measures 4.

First-aid measures

Date of issue

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.

: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get **Ingestion** medical attention if symptoms appear.

Skin contact : Wash with soap and water. Get medical attention if irritation occurs.

: Check for and remove any contact lenses. In case of contact with eyes, rinse Eye contact immediately with plenty of water. Get medical attention if irritation occurs.

See section 11 for more detailed information on health effects and symptoms.

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5. Fire-fighting measures

Extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Special exposure hazards

: No specific hazard.

Hazardous thermal decomposition products : These products are carbon oxides, sulphur oxides, phosphates. Some metallic oxides.

fire-fighters

Special protective equipment for : Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Accidental release measures **6.**

Personal precautions

: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

clean-up methods

Environmental precautions and : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

> If emergency personnel are unavailable, vacuum or carefully scoop up spilt material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

: Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate

ventilation. Avoid breathing dust. Wash thoroughly after handling.

: Keep container tightly closed. Store between 2°C (36°F) to 8°C (46°F). **Storage**

Packaging materials

Handling

Recommended : Use original container.

: Not available. Specific uses

8. Exposure controls/personal protection

Ingredient name

Occupational exposure limits

Phosphoric acid, sodium salt **EU OEL (Europe).**

TWA: 10 mg/m³ 8 hour/hours. Form: Particulate. TWA: 3 mg/m³ 8 hour/hours. Form: Respirable

Exposure controls

Occupational exposure

controls

: Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Recommended: Disposable vinyl gloves.

Eye protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Recommended: Safety glasses.

Skin protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a

specialist before handling this product. Body: Recommended: Lab coat.

Physical and chemical properties 9.

General information

Appearance

Date of issue

: Solid. Physical state

Important health, safety and environmental information

pH : Basic.

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PRO-LAE

Mucolyse

Melting point

Weighted average: 808.14°C (1486.7°F)

Flash point

The lowest known value is Closed cup: >109°C (228.2°F). (Pensky-Martens.). (2,3-Butanediol, 1,4-dimercapto-, (r*,r*)-)

Vapour pressure

: The highest known value is <0.01 kPa (<0.1 mm Hg) (at 20°C) (Phosphoric acid, sodium

Relative density

: Weighted average: 1.52 g/cm³

Solubility

Soluble in cold water, hot water.

Vapour density

: The highest known value is 5.3 (Air = 1) (2,3-Butanediol, 1,4-dimercapto-, (r*,r*)-).

Other information

10. Stability and reactivity

Stability

: The product is stable.

Materials to avoid

Reactive with oxidizing materials, acids and alkalis.

Hazardous decomposition

products

: These products are carbon oxides, sulphur oxides, phosphates. Some metallic oxides.

11. Toxicological information

Potential acute health effects

Inhalation : Irritating to respiratory system.

Ingestion : No known significant effects or critical hazards.

: Irritating to skin. Skin contact Eye contact : Irritating to eyes.

Acute toxicity

Ingredient name Route Species Test Result Phosphoric acid, sodium salt LD50 >2000 mg/kg Oral Rat LD50 >5000 mg/kg Rabbit Dermal 2,3-Butanediol, 1,4-dimercapto-, Rat LD50 400 mg/kg Oral

(r*,r*)-

Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. : No known significant effects or critical hazards. Reproductive toxicity

Over-exposure signs/symptoms

Inhalation : No known significant effects or critical hazards. No known significant effects or critical hazards. **Ingestion** Skin : No known significant effects or critical hazards.

Target organs Contains material which causes damage to the following organs: mucous membranes, skin.

Other adverse effects : Not available.

12. Ecological information

Mobility : Not available.

Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Waste classification European waste catalogue : Not applicable.

(EWC)

: Not available.

Hazardous waste

Date of issue

: The classification of the product may meet the criteria for a hazardous waste.

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14. Transport information

International transport regulations

Classification: ADR/ADNR/IMDG/IATA: Not regulated

Not applicable. Label:

Additional information

15. Regulatory information

EU regulations

Hazard symbol/symbols



Irritant

Risk phrases : R36/37/38- Irritating to eyes, respiratory system and skin.

: 2,3-Butanediol, 1,4-dimercapto-, (r*,r*)-**Contains** 222-468-7

Product use : Classification and labelling have been performed according to EU Directives 67/548/EEC and

1999/45/EC (including amendments) and the intended use.

- Industrial applications.

EU statistical classification

(Tariff Code)

: 32089091

16. Other information

Full text of R-phrases referred to: R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R36/37/38- Irritating to eyes, respiratory system and skin.

in sections 2 and 3 - United

Kingdom (UK)

Full text of classifications referred to in sections 2 and 3 -

United Kingdom (UK)

Revision comments

: Xn - Harmful Xi - Irritant

Training advice Recommended use and

restrictions

: Not available. : Not available.

: Not available.

Further information : Not available. : Not available. **Key data sources**

History

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Notice to reader

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exist. Page: 4/4 Version 1