

Version: 2.0

Date written: 1st November 2011 Date reviewed: 5th February 2021

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name LudgerClean™ T1 cartridges

Product Catalogue Name LC-T1-A6

CAS-No. **7631-86-9**

Company: Ludger Ltd

Culham Science Centre

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SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

This product is not classified as dangerous according to Regulation (EC) No. 1272/2008 [GHS/CLP].

2.2 Label elements

None required.

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Signal Word: Caution – Substance not yet tested completely.

Hazard Statement(s)

No data available.

Precautionary Statement(s)

No data available.

2.3 Other hazard information:

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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms: Synthetic amorphous silica gel Information not available

Component		Concentration	
Name	T1 cartridge resin	>95%	
CAS-No.	7631-86-9		
EC-No.	231-545-4		

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4.1 Description of First Aid Measures

General Advice

Consult a physician if exposure causes ill effects and if in any doubt. Show this safety data sheet to the physician/ first responder in attendance.

If Ingested

Rinse your mouth with plenty of water if the person is conscious. Never give anything by mouth to an unconscious person. Drink plenty of fluids afterwards.

If the skin is exposed

Wash the affected area(s) with plenty of soap and water.

If eyes are exposed

Flush eyes with plenty of water/ eye wash, making sure that the eye is rinsed well, paying attention to the areas around the eyelids.

If inhaled

Move the person into fresh air. If breathing has stopped give artificial respiration.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of immediate medical attention and special treatment needed

No data available

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Use a dry chemical, CO₂ water spray or alcohol foam media. Choose an extinguisher which is appropriate for the surrounding conditions.

5.2 Special hazards arising from the substance or mixture

No data available.

5.3 Advice for Firefighters

For extreme fires, wear self-contained breathing apparatus for fire fighting.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ventilate the affected area thoroughly and shut off any sources of ignition. Use PPE described in Section 8. Avoid causing dust when sweeping up the chemical. Avoid breathing in the dust.

6.2 Environmental Precautions

Do not let the chemical enter that drainage system.

6.3 Methods and material for containment and cleaning up

Collect the spilt chemical, creating as little dust as possible. Sweep up the chemical and shovel it into a suitable container with an air-tight lid. Arrange collection of the waste material.

6.4 Reference to other sections

Sections 8 and 13.

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SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

To handle/ work with the product in a well-ventilated area and the user to wear PPE.

7.2 Conditions for Safe Storage

Keep the products in a dry and well-ventilated storage cupboard/cabinet, in original packaging or a container with a lid. Keep product away from direct sunlight.

7.3 Specific end uses

No data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Component	CAS-No.	Value	Control param- eters	Basis
T1 cartridge resin	7631-86-9	TWA	6 mg/m3	UK. EH40 WEL - Workplace Exposure Limits

8.2 Exposure controls

Appropriate engineering controls

General advice to the user is to wear PPE, and wash hands, avoid contact with skin. To follow good laboratory practice for safety and hygiene.

Personal Protective Equipment

Eye/face protection

Safety glasses with side shields conforming to EN 166. Use eye equipment for eye protection tested and approved under appropriated government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Wear gloves when handling the product. Gloves must conform to the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Inspect gloves before use for tears and holes, gloves must be removed using the proper removal technique (without touching the outer surface of the glove) to avoid skin contact with the product. To be disposed of as chemical waste.

Body Protection

Laboratory overcover such as a laboratory coat or any other similar coverings.

Respiratory protection

Product to be used under extraction or well-ventilated area, no further protection is required for the amount per cartridge.

Thermal hazards

No data available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Form: Powder, $40 - 60\mu m$ diameter

Colour: White

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Odour None Odour threshold None

6.5 - 7.5 (10%)pΗ Freezing/Melting Point No data available Initial boiling point and boiling range No data available Flash Point No data available Evaporation rate No data available Flammability No data available Upper/lower flammability or explosive limits No data available Vapour Pressure No data available Relative Density No data available

Solubility in water Insoluble

Partition coefficient

Autoignition temperature

Decomposition temperature

Viscosity

Explosive properties

Oxidising properties

Insoluble

No data available

9.2 Other information

No data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable when stored under the recommended storage conditions in Section 7.

10.3 Possibility of Hazardous Reactions

No data available

10.4 Conditions to Avoid

High temperatures, above 200°C.

10.5 Incompatible materials

Strong oxidising agents, strong acids and hydrogen fluoride.

10.6 Hazardous decomposition products

Formed under fire/ high temperatures – Silicon oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

To the best of our knowledge, the toxicological properties of this product have not been fully investigated.

Acute toxicity

LD50 – Oral – Rat – male and female - > 5,000 mg/kg (OECD Test Guideline 401)

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 4 h (OECD Test Guideline 404)

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Serious eye damage/irritation

Eyes - Rabbit

Result: No eye irritation - 24 h (OECD Test Guideline 405)

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

Ames test

Salmonella typhimurium

Result: negative

In vitro mammalian cell gene mutation test

Chinese hamster ovary cells

Result: negative

Chromosome aberration test in vitro

Chinese hamster ovary cells

Result: negative Rat - male

Result: negative

(ECHA)

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

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

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard.

No data available

Potential Health Hazards

This product has no known adverse effect on human health.

Inhalation May cause respiratory tract irritation.

Ingestion No data available

SkinMay cause skin irritation.EyesMay cause eye irritation.

Signs and symptoms of exposure

No data available

SECTION 12. ECOLOGICAL INFORMATION

The eco-toxicological properties of this material have not been fully investigated.

12.1 Toxicity

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No data available.

12.2 Persistence and Degradability

No data available.

12.3 Bio-accumulative potential

Does not bioaccumulate.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

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.

12.6 Other adverse effects

No ecological problems are to be expected when the product is handled and used with due care and attention.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Contact a licensed professional waste disposal service to dispose of waste products. Do not send it as general waste for disposal.

Contaminated packaging

Dispose of it as an unused product, following the above advice.

SECTION 14. TRANSPORT INFORMATION

14.1 UN Number

ADR/RID: - IMDG: - IATA: -

14.2 UN Proper Shipping Name

ADR/RID: Not classed as dangerous goods IMDG: Not classed as dangerous goods IATA: Not classed as dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packing group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: No IMDG Marine pollutant: No IATA: No

14.6 Special precautions for user

No data available.

SECTION 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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15.1 Safety, health, and environmental regulations/legislation specific to the substance or mixture No data available.

15.2 Chemical Safety Assessment

No data available.

SECTION 16. OTHER INFORMATION

The advice offered is derived from the currently available information on the hazardous materials in this product and its component(s). Consideration has been made regarding the quantities offered in the pre-dispensed container. The advice offered is, therefore not all-inclusive nor should it be taken as the descriptive of the compound generally.

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