

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

1.1 Product identifier

Product name: PurePrep TL Buffer (Transport Lysis)
Product code: MGLBTL03003

1.2 Relevant identified uses of the substances or mixture:

In vitro diagnostic use & research use

uses advised against: In vivo use

1.3 Details of the supplier of the safety data sheet:

Molgen B.V.
Kazemat 23
3905 NR Utrecht (The Netherlands)
+31-(0)85 200 7431
info@molgen.com

1.4 Emergency telephone number

Call your local emergency center.

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Warning: Do not allow reagents containing guanidine hydrochloride to contact sodium hypochlorite (bleach) solution or acids. These mixtures produce a highly toxic gas.

Classification according to Regulation (EC) No 1272/2008 (CLP):

H-statements:

Acute Tox 4., H302

Skin Irrit. 2., H315

Eye Irrit. 2., H319

P-statements:

P264: Wash face, hands and any exposed skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P260: Avoid breathing dust/fume/gas/mist/vapors/spray

P271: Use only outdoors or in a well-ventilated area

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

P304+P340: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P304+P312: Call a poison center or doctor/physician if you feel unwell.

P302+P352: If on skin: Wash with plenty of soap and water.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P306+P360: Take off contaminated clothing and wash before reuse.

P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P301+P312: If swallowed: Call a poison center or doctor/physician if you feel unwell.

P301+P330: If swallowed: Rinse mouth.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents/containers to an approved waste disposal plant.

2.2 Label elements



GHS07 Warning

2.3 Other hazards

None.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredient	Identification	Classification	Concentration
Guanidine Hydrochloride	EC nr. 200-002-3 CAS nr. 50-01-1 REACH: 607-148-00-0	Acute Tox 4. H302 Skin Irrit. 2. H315 Eye Irrit. 2. H319	15-25%

Other substances chemicals/mixture <2%

4 FIRST AID MEASURES

4.1 Description of first aid measures

General advice: If symptoms persists, call a physician.
Eye contact: Rinse immediately with plenty of water for at least 15minutes. Get medical attention.
Skin contact: Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.
Inhalation: Move to fresh air. Obtain medical attention. If not breathing, give artificial respiration.
Ingestion: Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and affects: None reasonably foreseeable.
Note to physician: Treat symptomatically.

5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. No information available.
Unsuitable Extinguishing Media:

Specific Hazards Arising from the chemical:

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Protective Equipment and Precautions for firefighters:

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

6 ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.
Environmental precautions:	not necessary.
Methods for cleaning:	Bind any escaping liquid with inert absorbent. Do not clean with hypochlorite-containing solutions. Dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into drains.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid ingestion and inhalation. Do not get in eyes, on skin or on clothing.

7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature: see product label.

7.3 Specific end use(s)

Not applicable.

8 EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure guidelines:

This product does not contain any hazardous materials with occupational exposure. Limits established by the region-specific regulatory bodies.

Engineering Measures:

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection: Tightly fitting safety goggles.

Skin and body protection: Long sleeved clothing.

Respiratory Protection:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Transparent, colorless to light yellow liquid
Odour:	None
pH:	7.4-7.6
Boiling point:	Approx. 100°C
Flash point:	Not applicable
Explosive Properties:	Not applicable
Vapour pressure:	Not applicable
Relative density:	1.10 – 1.13 g/cm ³
Solubility:	Soluble in water

9.2 Other Information

No data available.

10 STABILITY AND REACTIVITY

Stability: No instability during the expiration period under recommended conditions.

Conditions/materials to avoid: Excess heat. Avoid sparks.

Hazardous decomposition products: None known

11 TOXICOLOGICAL INFORMATION

The following information is valid for pure substances:

Guanidine hydrochloride: CAS-no.: 50-01-1

LD50 (oral, rat): 475 mg/kg
LC50 (inh, rat): 3.2mg/L/4h
LD50 (drm rbt): >2000 mg/kg

other substances <2%: CAS-no.: -

Product is not subject to identification regulations.

12 ECOLOGICAL INFORMATION

Mobility: Water soluble. Will spread in water systems.

Degradability: Persistence is unlikely.

Ecotoxicity: The following information is only valid for pure substances.

Guanidine hydrochloride: CAS-no.: 50-01-1

EC50 (*Pseudomonas putida*/18h) = 88,7 mg/L
LC50 (fish/48h): 1758 mg/L

13 DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14 TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID A).

15 REGULATORY INFORMATION

Not applicable, product is not subject to identification regulations.

16 OTHER INFORMATION

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

It remains the user's own responsibility to make sure that the information is appropriate and complete for his specific use of this product. The user is also responsible for observing any laws and applicable guidelines.

Changes to previous version of the SDS: not applicable (first version).