



NemaMetrix

Safety Data Sheet

Nemamatrix Inc.
44 w 7th Ave
Eugene, OR 97408
(844) 863-8749
E: support@nemamatrix.com
www.nemamatrix.com

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

1 .1 Product Details:

Trade Names: Worm Lysis Kit
Catalogue Numbers: PCR101
Kit Components: 5x Rapid Extract Buffer A
1x Rapid Extract Buffer B

1 .2 Company Details

Supplier:

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Further information obtainable from technical support as detailed above

1 .3 Emergency Details.

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2. Hazards Identification

<i>Product name</i> Buffer B	<i>Directive 1999/45/EC</i> IRRITANT 	<i>GHS Directive 1272/2008/EC</i> DANGER 
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According to Regulation (EC) No1272/2008 Skin Irritant (Category 2)
 Eye Irritant (Category 2)
 Respiratory Sensitivity (Category 1)
 Specific Target Organ Toxicity (Single exposure) [Respiratory tract irritation] (Category 3)

According to European Directive 67/548/EEC as amended. Xi – Irritant

Label elements

Pictogram



Signal word

Warning; Danger

Hazard statement(s)

H315
 H319
 H334

Causes skin irritation.
 Causes serious eye irritation.
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335

May cause respiratory irritation.

Precautionary statement(s)

P261S
 P280sh
 P302+352

 P305+351+338

Avoid breathing dust
 Wear protective gloves/eye protection
 IF ON SKIN: Wash with plenty of soap and water
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazard symbol(s)

Xi

Sensitising



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R-phrase(s)

R36/37/38
R42

Irritating to eyes, respiratory system and skin.
May cause sensitisation by inhalation.

S-phrase(s)

S36/37

Wear suitable protective clothing and gloves

Other hazards

None

3. Composition/Information on Ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:**
 - Glycerol
 - CAS: 56-81-5
 - EINECS: 200-289-5
 - EC-No 254-457-8, 5-10%, Classification H315; H334; H335

Additional information: For the wording of the listed risk phrases refer to section 16.

4. First Aid Measures

Description of first aid measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally, the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Induce vomiting and call for medical help.

Information for doctor:

- **Most important symptoms and effects, both acute and delayed.** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed.** No further relevant information available.



5. Firefighting Measures

Extinguishing media:

- **Suitable extinguishing agents:** CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture.** No further relevant information available.

Advice for firefighters:

- **Protective equipment:** No special measures required.

6. Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures.** Not required.
- **Environmental precautions:**
 - Dilute with plenty of water.
 - Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Dispose contaminated material as waste according to item 13.
- **Reference to other sections**
 - No dangerous substances are released.
 - See Section 7 for information on safe handling
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.

7. Handling and Storage

Handling

- **Precautions for safe handling.** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**

Storage

- **Requirements to be met by storerooms and receptacles:** According to product specification
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s):** No further relevant information available.



8. Exposure Controls/Personal Protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters:

- **Components with limit values that require monitoring at the workplace: 56-81-5 glycerol WEL()**
Long term Value: 10 mg/m³
- **Additional information:** The lists that were valid during the creation were used as basis.

Exposure controls:

- **Personal protective equipment**
- **General protective and hygienic measures:** The usual precautionary measures should be adhered to when handling chemicals.
- **Breathing equipment:** Not required.
- **Protection of hands:** Protective gloves.
- **Material of gloves:** Synthetic gloves.
- **Penetration time of glove material:** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

General Information

- **Appearance:**
 - **Form:** Fluid
 - **Color:** Colorless
 - **Odor:** Odorless
 - **Odor threshold:** Not determined.
 - **pH-value:** Not determined.
- **Change in condition**
 - **Melting point/Melting range:** Undetermined.
 - **Boiling point/Boiling range:** 100°C
 - **Flash point:** >55°C
 - **Flammability (solid, gaseous):** Not applicable.
 - **Ignition temperature:** 270°C
 - **Decomposition temperature:** Not determined.
 - **Self-igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
 - **Explosion limits:**
 - **Lower:** 1.8 Vol %
 - **Upper:** 63.0 Vol%
 - **Vapor pressure at 20°C:** 23 hPa
 - **Density:** Not determined.



- **Relative density:** Not determined.
- **Vapor density:** Not determined.
- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with Water:** Fully miscible
- **Segregation coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - **Dynamic:** Not determined.
 - **Kinematic:** Not determined.
- **Solvent content:**
 - **Organic solvents:** 12.0 %
 - **Water:** 71.3 %
 - **Solids content:** 16.7 %
- **Other information:** No further relevant information available.

10. Stability and Reactivity

Reactivity- Chemical stability:

- **Thermal decomposition/ conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11. Toxicological Information

Information on toxicological effects

- **Acute toxicity:**
 - **LD/LC50 values that are relevant for classification:** 67-68-5 dimethyl sulfoxide Oral LD50 14500 mg/kg (rat)
- **Primary irritant effect:**
 - **On the skin:** No irritant effect.
 - **On the eye:** No irritating effect.
 - **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:** The product is not subject to classification according to the calculation method of the General EU

Classification Guidelines for Preparations as issued in the latest version: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.



12. Ecological Information

Toxicity:

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available

Behavior in environmental systems:

- **Bio accumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.

Additional ecological information:

- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment:

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

13. Disposal Considerations

Waste treatment methods:

- **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging's:

- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14. Transport Information

- **Maritime transport IMDG**
 - **Marine pollutant:** No
- **Special precautions for user:** Not applicable.
- **Transport/Additional information:** Not dangerous according to the above specifications.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.



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15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

- **National regulations**
 - **Technical instructions (air):** Class Share in % NK 1 0-20
 - **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16. Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.