

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

1 .1 Product Details:

Trade Names: PCR MasterMix

Catalogue Numbers: PCR102

Kit Components: PCR MasterMix

1 .2 Company Details

Supplier:

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

www.nemamatrix.com

Further information obtainable from technical support as detailed above

1 .3 Emergency Details.

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2. Hazards Identification

- **Trade name:** PCR MasterMix
- **Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008:** The product is not classified according to the CLP regulation.
 - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC:** Void
- **Information concerning particular hazards for human and environment**
 - The product does not have to be labelled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.
- **Classification system**
 - The classification was made according to the latest editions of the EU-lists and expanded upon from company and literature data.
- **Label elements**
 - Labelling according to EU guidelines: Observe the general safety regulations when handling chemicals
 - The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).
- **Safety phrases:** 35 This material and its container must be disposed of in a safe way.
- **Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

3. Composition/Information on Ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:**
 - None

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:** None
- **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 LDSO 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.



NemaMetrix

Safety Data Sheet

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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.

15. Regulatory Information

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

- **National regulations**
 - **Technical instructions (air):** Class Share in % NK 10-20
 - **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.