



DNA/RNA Preservation Solution Safety Data Sheet (SDS) acc. OSHA HCS

Review date: 5/1/2020

1. Identification

- Application of the substance/the mixture: Laboratory reagent.
- Details of the supplier of the SDS.
- Supplier: NEOGEN Genomics; 4131 N 48th St, Lincoln, NE 68504.
- Contact: eshuman@NEOGEN.com.

2. Hazards Identification



Acute Tox. 4: H302, harmful if swallowed.
Skin Irritant 2: H315, causes skin irritation.
Eye Irritant 2B: H320, causes eye irritation.

- Label elements.
- GHS label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms: GHS07.
- Signal word: Warning.
- Hazard statements:
 - Harmful if swallowed.
 - Causes skin and eye irritation.
- Precautionary statements:
 - Wash thoroughly after handling.
 - Do not eat, drink, or smoke when using this product.
 - Wear protective gloves.
 - If swallowed: Call a poison center/doctor if you feel unwell.
- Treatment:
 - If on skin: Wash with plenty of water.
 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Specific treatment:
 - Rinse mouth.
 - If skin irritation occurs: Get medical advice/attention.
 - If eye irritation persists: Get medical advice/attention.
 - Take off contaminated clothing and wash them before reuse.
 - Dispose of contents/container in accordance with local/regional/national/international regulations.



- Classification System:



NFPA ratings (scale 0–4).
Health: 2.
Fire: 0.
Reactivity: 0.



HMIS ratings (scale 0–4).
Health: 2.
Fire: 0.
Reactivity: 0.

- Other hazards.
- Results of PBT and vPvB assessment:
 - PBT: Not applicable.
 - vPvB: Not applicable.

3. Composition/Information about Ingredients

- Chemical characterization: Mixtures.
- Description: This product is a proprietary solution.
- Dangerous components: Void.

4. First Aid Measures

- After inhalation: Supply fresh air; consult a doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- Information for doctor:
 - Most important symptoms and effects, both acute and delayed: No further relevant information available.

5. Fire-fighting Measures

- Suitable extinguishing agents:
 - Not considered a fire hazard. Use extinguishing media appropriate surrounding fire conditions.
 - Use fire-fighting measures that suit the environment.
- Advice for firefighters:
 - Protective equipment: Wear protective clothing.

6. Accidental Release Measures

- Personal precautions, protective equipment, and emergency procedures:
 - Wear protective clothing.
- Environmental precautions: Dilute with plenty of water.
- Methods and material for containment and cleaning up:
 - Ensure adequate ventilation.
 - Dispose of contaminated material as waste according to item 13.
- Reference to other sections:
 - 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 precautions are necessary if used correctly.
 - Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities:
 - Storage: Room temperature. Sealed container. No special requirements.
 - Requirements to be met by storerooms and receptacles: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: Keep receptacle tightly sealed.
 - Specific end use(s): Laboratory reagent.

8. Exposure Controls/Personal Protection

- Additional information about design of technical systems: No further data; see item 7.
- Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls:
 - Personal protective equipment.
 - General protective and hygienic measures: Wash hands before breaks and at the end of work.
 - Breathing equipment: Not required.
 - Protection of hands: Use appropriate gloves. Avoid contact with skin.
 - 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: Avoid contact with eyes.
 - Body protection:
 - Avoid contact with eyes, skin, and clothing.
 - Wash thoroughly after handling.
 - Remove contaminated clothing and wash before use.
 - Avoid ingestion and inhalation.

9. Physical and Chemical Properties

- Information on basic physical and chemical properties:
 - General Information.
- Appearance:
 - Form: Liquid.
 - Color: Clear, colorless.
 - Odor: No information.
 - Odor threshold: Not determined:
 - pH value: 5.0–7.0.
- Change in condition:
 - Melting point/Melting range: Undetermined.
 - Boiling point/Boiling range: Undetermined.
 - Flash point: Not applicable.
 - Flammability (solid, gaseous): Not applicable.
 - Ignition temperature:
 - Decomposition temperature: Not determined.



- Auto igniting: Product is not self-igniting.
- Danger of explosion: Product does not present an explosion hazard.
 - Explosion limits:
 - Lower: Not Applicable.
 - Upper: Not Applicable.
- Vapor pressure: Not determined.
- Density: Not determined.
 - Relative density: Not determined.
 - Vapor density: Not determined.
 - Evaporation rate: Not determined.
- Solubility in/miscibility with water: Fully miscible.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
 - Dynamic: Not determined.
 - Kinematic: Not determined.
- Solvent content:
 - VOC content: 0%.
- Solids content: 0%.
- Other information: No further relevant information available.

10. Stability and Reactivity

- Reactivity: Strong oxidizing agents and acids.
- Possibility of hazardous reactions: Strong oxidizing agents and acids.
- Conditions to avoid: Strong oxidizing agents and acids.
- Incompatible materials: Strong oxidizing agents and acids.

11. Toxicological Information

- Information on toxicological effects.
- Acute toxicity: None noted.
- Primary irritant effect:
 - On the eye: Irritating to eyes.
- Additional toxicological information:
 - Carcinogenic categories:
 - IARC (International Agency for Research on Cancer): None of the ingredients is listed.
 - NTP (National Toxicology Program): None of the ingredients is listed.
 - OSHA-Ca (Occupational Safety and Health Administration): None of the ingredients is listed.

12. Ecological Information

- Toxicity:
 - Aquatic toxicity: No further relevant information available.
 - Persistence and degradability: No further relevant information available.
 - Behavior in environmental systems:
 - Bioaccumulative potential: No further relevant information available.
 - Mobility in soil: No further relevant information available.
 - 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: Dispose of contents in accordance with local/regional/national, and international recommendations.
- Uncleaned packaging:
 - Recommendation: Dispose of container in accordance with local/regional/national and international recommendations.

14. Transport Information

- UN-Number: Not dangerous goods.
 - DOT, ADN, IMDG, IATA: Not regulated.
- UN proper shipping name: Not dangerous goods.
 - DOT, ADN, IMDG, IATA: Not regulated.
- Transport hazard class(es): Not dangerous goods.
 - DOT, ADN, IMDG, IATA Class: Not regulated.
- Packing group: Not dangerous goods.
 - DOT, IMDG, IATA: Not regulated.
- Environmental hazards: Not applicable.
- Special precautions for user: Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
- UN “Model Regulation”: Not regulated.

15. Regulatory Information

- Safety, health, and environmental regulations/legislation specific for the substance or mixture:
 - Sara
 - Section 355 (Extremely Hazardous Substance): None of the ingredients is listed.
 - Section 313 (specific toxic chemical listings): None of the ingredients is listed.
- TSCA (Toxic Substances Control Act): None of the ingredients is listed.
- Proposition 65:
 - Chemicals known to cause cancer: None of the ingredients is listed.
 - Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.
 - Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.
 - Chemicals known to cause developmental toxicity: None of the ingredients is listed.
- Carcinogenic Categories:
 - EPA (Environmental Protection Agency): None of the ingredients is listed.
 - TLV (Threshold Limit Value established by ACGIH): None of the ingredients is listed.
 - NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients is listed.
- GHS labeling: Product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms: GHS07.
- Signal word: Warning.
- Hazard statements:
 - Harmful if swallowed
 - Causes skin and eye irritation.
- Precautionary statements:
 - Wash thoroughly after handling.
 - Do not eat, drink, or smoke when using this product.
 - Wear protective gloves.



- If swallowed: Call a poison center/doctor if you feel unwell.
- If on skin: Wash with plenty of water.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Specific treatment (see on this label):
 - Rinse mouth.
 - If skin irritation occurs: Get medical advice/attention.
 - If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash them before reuse.
 - Dispose of contents/container in accordance with local/regional/national/international regulations.
- 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.

Organization issuing SDS: NEOGEN Genomics; 4131 N 48th St, Lincoln, NE 68504.

- Contact: Eric Shuman: eshuman@NEOGEN.com.
- Date of preparation/last revision: May 1, 2020.
- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity — Category 4

Skin Irrit. 2: Skin corrosion/irritation — Category 2

Eye Irrit. 2B: Serious eye damage/eye irritation — Category 2B