

SAFETY DATA SHEET

Conforms to EU Directive 91/155/EEC, as amended by 2001/58/EC - United Kingdom (UK)
English

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

Product name

Rac-1-GFP vector 12Mth AEL

Catalogue Number

67-6101-46



9 0 6 7 6 1 0 1 4 6

Component Number

NIF1992

Product type

Liquid.

Company/undertaking identification

Supplier

GE Healthcare UK Ltd
Amersham Place
Little Chalfont
Buckinghamshire HP7 9NA
England
+44 0870 606 1921

Emergency telephone number

Swedish Poisons Information Centre :
+46 (0)8 331 231

Person who prepared the MSDS : msdslifesciences@ge.com

United Kingdom (UK)

GE Healthcare UK Ltd
Amersham Place
Little Chalfont
Buckinghamshire
HP7 9NA

0870 606 1921

2. Hazards identification

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification

Not classified.

See section 11 for more detailed information on health effects and symptoms.

3. Composition/information on ingredients

Substance/preparation

Preparation

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in this section, in accordance with EU or national regulations.

4. First-aid measures

First-aid measures

Inhalation

If inhaled, remove to fresh air. Get medical attention if symptoms appear.

Ingestion

Do not ingest. Get medical attention if symptoms appear.

Skin contact

Wash with soap and water. Get medical attention if symptoms appear.

Eye contact

In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation occurs.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training.

See section 11 for more detailed information on health effects and symptoms.



Article Number

67610146



9 5 6 7 6 1 0 1 4 6

Page: 1/4

Validation date 12 November 2008

Version 1

5. Fire-fighting measures

Extinguishing media

| | |
|---|--|
| Suitable | Use an extinguishing agent suitable for the surrounding fire. |
| Not suitable | None known. |
| Special exposure hazards | In a fire or if heated, a pressure increase will occur and the container may burst. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Special protective equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

6. Accidental release measures

| | |
|----------------------------------|--|
| Personal precautions | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see section 8). |
| Environmental precautions | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Large spill | Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal. |
| Small spill | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |

7. Handling and storage

| | |
|-----------------|---|
| Handling | Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. |
| Storage | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. |

Packaging materials

| | |
|--------------------|-------------------------|
| Recommended | Use original container. |
|--------------------|-------------------------|

8. Exposure controls/personal protection

| | |
|------------------------------|----------------|
| Exposure limit values | Not available. |
|------------------------------|----------------|

Exposure controls

| | |
|--|--|
| Occupational exposure controls | No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. |
| Respiratory protection | Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. |
| Hand protection | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. |
| Eye protection | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. |
| Skin protection | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Environmental exposure controls | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |



9. Physical and chemical properties

General information

Appearance

| | |
|----------------|-------------|
| Physical state | Liquid. |
| Colour | Colourless. |
| Odour | Odourless. |

Important health, safety and environmental information

| | |
|----------------------|--|
| Explosive properties | Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture. |
| Solubility | Easily soluble in the following materials: cold water and hot water. |

10. Stability and reactivity

| | |
|--------------------|------------------------|
| Stability | The product is stable. |
| Materials to avoid | No specific data. |

11. Toxicological information

Potential acute health effects

| | |
|--------------|---|
| Inhalation | No known significant effects or critical hazards. |
| Ingestion | No known significant effects or critical hazards. |
| Skin contact | No known significant effects or critical hazards. |
| Eye contact | No known significant effects or critical hazards. |

Acute toxicity

| | |
|--------------------|---|
| Conclusion/Summary | Very low toxicity to humans or animals. |
|--------------------|---|

Potential chronic health effects

| | |
|-----------------------|---|
| Chronic effects | No known significant effects or critical hazards. |
| Carcinogenicity | No known significant effects or critical hazards. |
| Mutagenicity | No known significant effects or critical hazards. |
| Reproductive toxicity | No known significant effects or critical hazards. |
| Developmental effects | No known significant effects or critical hazards. |
| Fertility effects | No known significant effects or critical hazards. |

Over-exposure signs/symptoms

| | |
|------------|-------------------|
| Inhalation | No specific data. |
| Ingestion | No specific data. |
| Skin | No specific data. |
| Eyes | No specific data. |

12. Ecological information

| | |
|-----------------------|---|
| Environmental effects | No known significant effects or critical hazards. |
| Conclusion/Summary | Not available. |
| Conclusion/Summary | Not available. |
| Other adverse effects | No known significant effects or critical hazards. |

13. Disposal considerations

| | |
|---------------------|---|
| Methods of disposal | The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. |
| Hazardous waste | Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC. |



14. Transport information

International transport regulations

Not classified.

-

15. Regulatory information

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

| | |
|------------------|---|
| Risk phrases | This product is not classified according to EU legislation. |
| Product use | Industrial applications. |
| Europe inventory | All components are listed or exempted. |

Other EU regulations

16. Other information



Indicates information that has changed from previously issued version.

History

| | | | |
|------------------|------------------|------------------------|------------------------|
| Date of printing | 12 November 2008 | Date of previous issue | No previous validation |
| Date of issue | 12 November 2008 | Version | 1 |

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

