# **GE Healthcare**

# **Material Safety Data Sheet**

Australia English

1. Identification of the material and supplier

Product name BIAnormalizing solution 40%; part of 'PM Kit, type

Catalogue Number BR-1004-29

Company details

Supplier Manufacturer

GE Healthcare Bio-Sciences GE Healthcare UK Ltd Building 4B, Parklands Estate Amersham Place Little Chalfont 21 South Street Buckinghamshire HP7 9NA Rydalmere NSW 2116 Australia Enaland

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Emergency telephone number 000 and +61 2 9846 4000

<u>Uses</u>

Area of application Industrial applications. Material uses Analytical chemistry. Research.

Product type Liquid.

Hazards identification 2.

Classification Not regulated. Risk phrases Not classified.

Statement of hazardous/dangerous nature

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

3. Composition/information on ingredients

Mixture

Ingredient name CAS number Concentration

glycerol 56-81-5

**Additional information** 

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First-aid measures

First-aid measures

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for

and remove any contact lenses. Get medical attention if irritation occurs.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical

attention if symptoms occur.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention

if symptoms occur.



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Ingestion wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable foi

breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical

attention if symptoms occur.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.

#### 5 Fire-fighting measures

Extinguishing media

Suitable Use an extinguishing agent suitable for the surrounding fire.

Not suitable

Special exposure hazards 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.

In a fire or if heated, a pressure increase will occur and the container may burst.

Special protective equipment for Hazardous combustion products

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. Decomposition products may include the following materials:

carbon dioxide carbon monoxide

#### Accidental release measures 6.

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). Methods for cleaning up

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.

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Small spill

Alternatively, or if water-insoluble, 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. Remove contaminated clothing and protective equipment

before entering eating areas.

Storage Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). 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.

#### Exposure controls/personal protection 8.

### Occupational exposure limits

Ingredient name

glycerol

Occupational exposure limits Safe Work Australia (Australia, 4/2013).

TWA: 10 mg/m<sup>3</sup> 8 hours.

Recommended monitoring

procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Engineering measures** 

Hygiene measures

Good general ventilation should be sufficient to control worker exposure to airborne contaminants. 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.

Personal protection

Eyes 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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses

with side-shields Hands

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.

 $\overline{\mathbb{V}}$ se 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.

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Skin 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.

**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

Physical stateLiquid.ColourColourless.OdourOdourless.Flame durationNot applicable.

# 10. Stability and reactivity

Chemical stability

Possibility of hazardous reactions Index normal conditions of storage and use, hazardous reactions will not occur.

# 11. Toxicological information

## Potential acute health effects

InhalationNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.Skin contactNo known significant effects or critical hazards.Eye contactNo known significant effects or critical hazards.

**Acute toxicity** 

Product/ingredient name Result Species Dose Exposure

∬ycerol LD50 Oral Rat 12600 mg/kg -

Conclusion/Summary Not available.

### Potential chronic health effects

**Chronic toxicity** 

Conclusion/Summary Not available.

Irritation/Corrosion

Conclusion/Summary Not available.

<u>Sensitiser</u>

Conclusion/Summary Not available.

Carcinogenicity

Conclusion/Summary Not available.

**Mutagenicity** 

Conclusion/Summary Not available.

**Teratogenicity** 

Conclusion/Summary Not available.

Reproductive toxicity

Conclusion/Summary Not available.

Chronic effects
 Carcinogenicity
 Mutagenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 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

InhalationNo specific data.IngestionNo specific data.SkinNo specific data.EyesNo specific data.

Target organs Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin,

eyes.



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## 12. Ecological information

**Ecotoxicity** No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient nameTestResultSpeciesExposureGlycerolAcute LC50 54 to 57 ml/L Fresh waterFish - Oncorhynchus mykiss96 hours

Conclusion/Summary

Not available.

Not available

Persistence/degradability

Conclusion/Summary

 Product/ingredient name
 Aquatic half-life
 Photolysis
 Biodegradability

 Glycerol
 >60%; 28 day(s)
 Readily

Bioaccumulative potential

 Product/ingredient name
 LogPow
 BCF
 Potential

 glycerol
 -1.76
 low

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. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# 14. Transport information

Regulation	UN number	Proper shipping name	Class	PG	Label	Additional information
ADG	Not regulated.	-	-	-		-
ADR	Not regulated.	-	-	-		-
IMDG	Not regulated.	-	-	-		-
IATA	Not regulated.	-	-	-		-

## PG\*: Packing group

# 15. Regulatory information

## Standard Uniform Schedule of Medicine and Poisons

Not regulated.

## **Control of Scheduled Carcinogenic Substances**

<u>Ingredient name</u> <u>Schedule</u>

Not available.

**Australia inventory (AICS)** All components are listed or exempted.

EU ClassificationNot classified.HCS ClassificationTarget organ effects

# 16. Other information

**History** 

Date of printing15 February 2015Date of previous issue22 June 2011

**Date of issue** 16 January 2015 **Version** 

Indicates information that has changed from previously issued version.

Enquiries regarding MSDS content should be directed to: our local sales office.

Notice to reader



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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.



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