## **GE Healthcare**

# **Material Safety Data Sheet**

Australia English

1. Identification of the material and supplier

Product name Cy<sup>TM</sup>3 Reactive Dye Pack

Catalogue Number PA23000

Company details

Manufacturer Supplier

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

England Australia +44 0870 606 1921 +61 2 8820 8299

Emergency telephone number 000 and +61 2 9846 4000 Chemical product name Cy3 (Bis NHS ester)

ADG -

<u>Uses</u>

Area of applicationIndustrial applications.Material usesAnalytical chemistry. Research.

Product type Solid.

Hazards identification

**Classification** Xn; R20/21/22

R42/43

**Risk phrases** R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.

R42/43- May cause sensitisation by inhalation and skin contact.

Safety phrases S22- Do not breathe dust.

S36/37- Wear suitable protective clothing and gloves.

Statement of hazardous/dangerous nature

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

3. Composition/information on ingredients

Mixture No.

<u>Ingredient name</u> <u>CAS number</u> <u>Concentration</u>

Cy3 (Bis NHS ester) - 100

**Additional information** 

Not applicable.

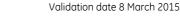
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.



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#### 4 First-aid measures

First-aid measures

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for Eye contact and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

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

contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further

exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that

fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any

complaints or symptoms, avoid further exposure.

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a Ingestion position comfortable for breathing. If material has been swallowed and the exposed person is conscious,

give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or

waistband

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. If it is suspected that

fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves.

#### 5. Fire-fighting measures

Extinguishing media

Suitable Use an extinguishing agent suitable for the surrounding fire.

Not suitable None known

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.

No specific fire or explosion hazard.

Special protective equipment for **Hazardous combustion products** 

fire-fighters

Methods for cleaning up

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 nitrogen oxides sulfur oxides metal oxide/oxide:

#### Accidental release measures 6.

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding Personal precautions

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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). Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section

13 for waste disposal.

Small spill Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust

dispersal. Place spilled material in a designated, labeled waste 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. Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.



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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.

## 8. Exposure controls/personal protection

Occupational exposure limits

No exposure standard allocated.

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**Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use

process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to

airborne contaminants below any recommended or statutory limits.

**Hygiene measures** 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

Personal protection

Skin

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the

protection time of the gloves cannot be accurately estimated.

**Respiratory**Use a properly fitted, particulate filter 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. 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 stateSolid.ColourRed.OdourOdourless

**Flash point** [Product does not sustain combustion.]

**Soluble** in the following materials: cold water and hot water.

Flame duration Not applicable.

#### 10. Stability and reactivity

**Chemical stability** The product is stable.

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

#### 11. Toxicological information

## Potential acute health effects

**Inhalation** Harmful by inhalation. May cause sensitisation by inhalation. Exposure to decomposition products may

cause a héalth hazard. Serious effects may be délayed following exposure.

**Ingestion** Harmful if swallowed.

**Skin contact** Harmful in contact with skin. May cause sensitisation by skin contact.

**Eye contact** No known significant effects or critical hazards.

Acute toxicity

Conclusion/Summary Not available.

Potential chronic health effects

Chronic toxicity

Conclusion/Summary Not available

Irritation/Corrosion

Conclusion/Summary Not available.



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Sensitiser

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**Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

Over-exposure signs/symptoms

**Inhalation** Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

**Ingestion** No specific data.

**Skin** Adverse symptoms may include the following:

irritation redness

**Eyes** No specific data.

## 12. Ecological information

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

**Aquatic ecotoxicity** 

**Conclusion/Summary** Not available.

Persistence/degradability

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. 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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						



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### 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)

EU Classification

Kn; R20/21/22
R42/43

HCS Classification

Toxic material
Sensitising material

Sensitising mate

#### 16. Other information

<u>History</u>

Date of printing08 March 2015Date of previous issue14 October 2013

**Date of issue** 08 March 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

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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