# **Material Safety Data Sheet**

Canada English

Section 1. Chemical product and company identification

**Product name** Cy™5 Reactive, Ambion, 5 vial (20X)

Catalogue Number RPK5661B

Material uses Industrial applications: Analytical chemistry. Research.

Solid. Product type Validation date 27 May 2011 27 May 2011 Print date

GE Healthcare UK Ltd Supplier

Amersham Place Little Chalfont

Buckinghamshire HP7 9NA England

+44 0870 606 1921

US ChemTrec (US) 1-800-424-9300 In case of emergency

Canada ChemTrec (US) 1-703-527-3887

#### 2. Hazards identification

Physical state Odorless Odor WARNING! **Emergency overview** 

HARMFUL IF INHALED. MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION. MAY BE HARMFUL IF

ABSORBED THROUGH SKIN OR IF SWALLOWED.

o not ingest. Use only with adequate ventilation. Avoid prolonged contact with eyes, skin and clothing. **Precautionary measures** 

Keep container closed. Wash thoroughly after handling.

Dermal contact. Eye contact. Inhalation. Ingestion. Routes of entry

Potential acute health effects

Eyes No known significant effects or critical hazards.

Skin Harmful in contact with skin. May cause sensitization by skin contact.

Inhalation Toxic by inhalation. May cause sensitization by inhalation. Exposure to decomposition products may

cause a health hazard. Serious effects may be delayed following exposure.

Ingestion Harmful if swallowed.

Potential chronic health effects

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

Carcinogenicity 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.

Target organs Not available.

Inhalation Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

Ingestion No specific data.

Skin Adverse symptoms may include the following:

irritation

Eyes No specific data.

Medical conditions aggravated by

Pre-existing respiratory and skin disorders may be aggravated by over-exposure to this product.

over-exposure

Article Number Page: 1/5

25604001 Validation date 27 May 2011

Version 8





## 3. Composition/information on ingredients

Name CAS number % by weight

Cy5 (mono-reactive) 100 -

Section 4. First aid measures

**Eye contact** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15

minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin contact** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get

medical attention immediately.

**Inhalation** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs,

provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt

or waistband. Get medical attention immediately.

**Ingestion** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never

give anything by mouth to an unconscious person. Get medical attention immediately.

**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.

Section 5. Fire-fighting measures

**Flammability of the product** No specific fire or explosion hazard.

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.

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.

Section 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 spilled 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 spilled 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 Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses,

basements or confined areas. Vacuum or sweep up material and place in a designated, 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. Vacuum or sweep up material and place in a designated, labeled waste

container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Handling Fut 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 sensitization 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.

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 unlabeled containers. Use appropriate containment to avoid

environmental contamination.



Article Number

25604001

01 Validation date 27 May 2011



RPK5661B

#### Section 8. Exposure controls/personal protection

#### Consult local authorities for acceptable exposure limits.

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.

**Engineering measures** Hygiene measures

controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. 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.

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering

Personal protection

Hands

controls

Respiratory 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. 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.

Safety eyewear complying with an approved standard should be used when a risk assessment indicates Eyes this is necessary to avoid exposure to liquid splashes, mists or dusts.

Personal protective equipment for the body should be selected based on the task being performed and the Skin

risks involved and should be approved by a specialist before handling this product.

**Environmental exposure** 

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.

#### Section 9. Physical and chemical properties

Physical state

Flash point Product does not sustain combustion.

Blue Color Odorless. Odor Molecular weight 580.75 Molecular formula ₹37H42N3O10S2K Volatility 0% (w/w)

voc ₹% (w/w) [ISO 11890-1]

Easily soluble in the following materials: cold water, hot water and methanol. Solubility

#### Section 10. Stability and reactivity

The product is stable. Stability

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

Non-flammable in the presence of the following materials or conditions: open flames, sparks and static Conditions of reactivity

discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.

Not considered to be a product presenting a risk of explosion.

#### Section 11. Toxicological information

**Acute toxicity** 

Product/ingredient name Result Species Dose Exposure

Not available.

Not available. Conclusion/Summary

Classification

Product/ingredient name **ACGIH** IARC EPA NIOSH **OSHA** 

Not available.

Synergistic products Not available.



Article Number



Page: 3/5

#### Section 12. Ecological information

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

Partition coefficient: n-

octanol/water

Not available.

Bioconcentration factor Other adverse effects

No known significant effects or critical hazards.

#### Section 13. Disposal considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. 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. 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 spilled material and runoff and contact with soil,

waterways, drains and sewers.

RCRA classification

Not available.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

### Section 14. Transport information

#### International transport regulations

Not classified.

\_

#### Section 15. Regulatory information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS (Canada) Class D-1B: Material causing immediate and serious toxic effects (Toxic).

Canadian lists CEPA Toxic substances: This material is not listed.

Canadian ARET: This material is not listed. Canadian NPRI: This material is not listed.

Alberta Designated Substances: This material is not listed. Ontario Designated Substances: This material is not listed. Quebec Designated Substances: This material is not listed.

Canada inventory Not determined.

#### International regulations

International lists Australia inventory (AICS): Not determined.

China inventory (IECSC): Not determined. Japan inventory: Not determined. Korea inventory: Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

Chemical Weapons Convention

List Schedule I Chemicals

Not listed

Chemical Weapons Convention List Schedule II Chemicals Not listed

Chemical Weapons Convention

List Schedule III Chemicals

Not listed



25604001

Page: 4/5

Validation date 27 May 2011



Article Number

#### Section 16. Other information

The customer is responsible for determining the PPE code for this material.



Indicates information that has changed from previously issued version.

<u>History</u>

Date of printing27 May 2011Date of previous issue03 September 2009

Date of issue 27 May 2011 Version 8

#### 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.



Article Number 25604001