1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name: DRAQ5
Product Code: DR05100; DR05500; DR10100; DR50050; DR50200; DR51000
CAS No.: None assigned
EINECS No.: None assigned
REACH Registration No.: None assigned

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s): Fluorescent DNA Dye
SU24 Scientific research and development

1.3 Details of the supplier of the safety data sheet

Company Identification: BioStatus Limited
56A Charnwood Road
Shepshed
Leicestershire
LE12 9NP
United Kingdom

Telephone: T: +44 1509 558 163
Fax: F: +44 1509 651 061
E-Mail (competent person): E: enquiry@biostatus.com
Website: W: www.biostatus.com

1.4 Emergency telephone number

Emergency Phone No.: +44 1509 558 163
(Hours of operation 09.00-18.00 GMT Mon-Fri)

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Product Description: Mixture
WHMIS Classification: Hazardous Ingredient(s): Class D, Division 2, Subdivision B, Toxic Material

2.2 Label elements

Product Name: DRAQ5
Hazard Pictogram(s): Warning
Signal Word(s): H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
Hazard Statement(s): P280: Wear protective gloves/protective clothing/eye protection/face protection.
P264: Wash (hands and exposed skin) thoroughly after handling.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312: Call a POISON CENTER/doctor if you feel unwell.
P332+P313: If skin irritation occurs: Get medical advice/attention.
Precautionary Statement(s):
2.3 Other hazards
P362: Take off contaminated clothing.
Warning - this preparation contains a substance not yet tested completely.

2.4 Additional Information
None

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

<table>
<thead>
<tr>
<th>Hazardous Ingredient(s)</th>
<th>%</th>
<th>CAS No.</th>
<th>OSHA HCS (29 CFR 1910.1200)</th>
<th>WHMIS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,5-BIS(2-(DIMETHYLAMINO)ETHYLAMINO)-4,8-DIHYDROXANTHRACENE-9,10-DIONE</td>
<td>&lt;1</td>
<td>None assigned</td>
<td>Irritant.</td>
<td>Class D, Division 2, Subdivision B, Toxic Material</td>
</tr>
</tbody>
</table>

3.3 Additional Information
For full text of H/P phrases see section 16.

4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures
General information
Warning - this preparation contains a substance not yet tested completely.

Inhalation
IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Ingestion
IF SWALLOWED: Rinse mouth. Get medical attention immediately.

Skin Contact
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If symptoms persist, obtain medical attention.

Eye Contact
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed
Inhalation
May cause irritation to the respiratory system.

Ingestion
Stomach ache. Vomiting

Skin Contact
May cause irritation.

Eye Contact
May cause eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media
Non-flammable. In case of fire in the surroundings: all extinguishing agents allowed.

5.2 Special hazards arising from the substance or mixture
None anticipated.

5.3 Advice for fire-fighters
Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear suitable protective clothing, gloves and eye/face protection.

6.2 Environmental precautions
Cover with absorbent or contain. Collect and dispose.
6.3 Methods and material for containment and cleaning up

Wear suitable protective clothing, gloves and eye/face protection. Cover with absorbent or contain. Collect and dispose. Dispose of this material and its container to hazardous or special waste collection point. Wash the spillage area with water.

6.4 Reference to other sections

Wear suitable protective clothing, gloves and eye/face protection. For full text of H/P phrases see section 16. Collect mechanically and dispose of according to Section 13.

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

For professional users only.
Observe the usage / storage instructions.
Wear suitable protective clothing, gloves and eye/face protection.
Avoid contact with skin and eyes.
Always wash hands before smoking, eating and drinking.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature
Storage life
Incompatible materials
Storage temperature (°C): 2-8. Do not freeze.
Observe directions on label and instructions for use.
None anticipated.

7.3 Specific end use(s)

Fluorescent DNA Dye
SU24 Scientific research and development

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limit values
USA (NIOSH/OSHA)
BEI: Biological Exposure Indices (ACGIH)
OEL (Ireland)
Japan (ENCS)
Not determined.
Not determined.
Not determined.
Not determined.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation.

8.2.2 Personal protection equipment

Eye/face protection
Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)
Wear suitable protective clothing and gloves.

Respiratory protection
Not normally required. Unlikely to be hazardous by inhalation because of the low vapor pressure of the material at ambient temperature.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance
Colored liquid.
Color
Blue.
Odor
Odorless.
Odor Threshold
Not available.
pH
Not available.
Melting Point/Freezing Point
Not available.
Initial boiling point and boiling range
Not available.
Flash point
Not available.
Evaporation Rate
Not available.
Flammability (solid, gas)
Not available.
9.2 Other information
None known.

10. SECTION 10: STABILITY AND REACTIVITY
10.1 Reactivity
None known.
10.2 Chemical stability
Stable at ambient temperatures.
10.3 Possibility of hazardous reactions
None known.
10.4 Conditions to avoid
None known.
10.5 Incompatible materials
Strong oxidizing agents. Strong Alkalis.
10.6 Hazardous decomposition product(s)
None known.

11. SECTION 11: TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects
Mixture
Warning - this preparation contains a substance not yet tested completely.
Acute toxicity
Not determined. No information available.
Irritation
Not determined. No information available.
Corrosivity
Not determined. No information available.
Sensitization
Not determined. No information available.
STOT - single exposure
Not determined. No information available.
Repeated dose toxicity
Not determined. No information available.
Carcinogenicity
Not determined. No information available.
Mutagenicity
Not determined. No information available.
Toxicity for reproduction
Not determined. No information available.
11.2 Other information
Inhalation
May cause irritation to the respiratory system.
Ingestion
Harmful; possible risk of irreversible effects if swallowed.
Skin Contact
May cause irritation.
Eye Contact
May cause eye irritation.

12. SECTION 12: ECOLOGICAL INFORMATION
12.1 Toxicity
Not determined. No information available.
12.2 Persistence and degradability
Not determined. No information available.
12.3 Bioaccumulative potential
Not determined. No information available.
12.4 Mobility in soil
Not determined. No information available.
12.5 Results of PBT and vPvB assessment
Not determined. No information available.
12.6 Other adverse effects
Not determined. No information available.

13. SECTION 13: DISPOSAL CONSIDERATIONS
13.1 Waste treatment methods
Disposal should be in accordance with local, state or national legislation.
13.2 Additional Information
Wear suitable protective clothing, gloves and eye/face protection.

14. SECTION 14: TRANSPORT INFORMATION
NOT CLASSED AS DANGEROUS FOR TRANSPORT.
14.1 UN number
Not applicable.

14.2 UN proper shipping name
Not applicable.

14.3 Transport hazard class(es)
Not applicable.

14.4 Packing group
Not applicable.

14.5 Environmental hazards
None known.

14.6 Special precautions for user
Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- SARA 313 - Toxic Chemicals
  None
- CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)
  None
- Proposition 65 (California)
  None
- Massachusetts MSL
  None
- New Jersey Department of Health RTK List
  None
- Pennsylvania RTK
  None
- CANADA WHMIS Classification
  Class D, Division 2, Subdivision B, Toxic Material
- CANADA INGREDIENT DISCLOSURE LIST
  None

15.2 Chemical Safety Assessment
Not determined. No information available.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

- LTEI: Long Term Exposure Limit
- STEL: Short Term Exposure Limit
- STOT: Specific Target Organ Toxicity
- DNEL: Derived No Effect Level
- PNEC: Predicted No Effect Concentration
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 1: Flammable Liquid Category 1
- Flam. Liq. 2: Flammable Liquid Category 2
- Flam. Liq. 3: Flammable Liquid Category 3
- Acute Tox. 4: Acute toxicity Category 4
- Skin Irrit. 2: Skin corrosion/irritation Category 2
- Eye Irrit. 2: Serious eye damage/irritation Category 2
- STOT SE 3: Specific target organ toxicity — single exposure Category 3
- STOT RE 1: Specific target organ toxicity — repeated exposure Category 1

Hazard Statement(s) and Precautionary Statement(s)

- H319: Causes serious eye irritation.
- H315: Causes skin irritation.
- H335: May cause respiratory irritation.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
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- P312: Call a POISON CENTER/doctor if you feel unwell.
- P313: If skin irritation occurs: Get medical advice/attention.
- P362: Take off contaminated clothing.

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