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
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.
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)ETHYL)AMINO]-4,8-DIHYDROXYANTHRACENE-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
Skin protection (Hand protection/ Other)
Respiratory protection

Wear protective eyewear (goggles, face shield, or safety glasses).
Wear suitable protective clothing and gloves.
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
Color.
Odor
Odor Threshold
pH
Melting Point/Freezing Point
Initial boiling point and boiling range
Flash point
Evaporation Rate
Flammability (solid, gas)

Colored liquid.
Blue.
Odorless.
Not available.
Not available.
Not available.
Not available.
Not available.
Not available.
Not available.
Not available.
Upper/lower flammability or explosive limits  Not available.
Vapor pressure  Not available.
Vapor density  Not available.
Relative density  Not available.
Solubility(ies)  Not available.
Partition coefficient: n-octanol/water  Not available.
Auto-ignition temperature  Not available.
Decomposition Temperature  Not available.
Viscosity  Not available.
Explosive properties  Not available.
Oxidizing properties  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

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
PIN Number Not applicable.
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
LTEL 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)
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P362: Take off contaminated clothing.

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