


SAFETY DATA SHEET


OSHA HCS (29 CFR 1910.1200); WHMIS Classification

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

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| 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

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|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.1 Classification of the substance or mixture | |
| Product Description | Mixture Blue. Clear. Liquid. Odorless. |
| OSHA HCS (29 CFR 1910.1200) | Hazardous Ingredient(s) |
| WHMIS Classification | Class D, Division 2, Subdivision B, Toxic Material |
| 2.2 Label elements | According to Regulation (EC) No. 1272/2008 (CLP) |
| Product Name | DRAQ5 |
| Hazard Pictogram(s) |  |
| Signal Word(s) | Warning |
| Hazard Statement(s) | H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation. |
| Precautionary 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. |

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- 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

| Hazardous Ingredient(s) | % | CAS No. | OSHA HCS (29 CFR 1910.1200) | WHMIS Classification |
|---------------------------------------------------------------------------|----|---------------|-----------------------------|----------------------------------------------------|
| 1,5-BIS[[2-(DIMETHYLAMINO)ETHYL]AMINO]-4,8-DIHYDROXYANTHRACENE-9,10-DIONE | <1 | None assigned | Irritant. | Class D, Division 2, Subdivision B, Toxic Material |

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.

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|-----|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

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| 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

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|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. 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) | Wear protective eyewear (goggles, face shield, or safety glasses). |
| | Respiratory protection | 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

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|----------------------------------------------|----------------|
| 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

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|------------------------------------------------|------------------------------------------|
| 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

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|--------------------------------------------------|----------------------------------------------------------------------------|
| 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

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|------------------------------------------------|-------------------------------------------|
| 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

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|-------------------------------------|-----------------------------------------------------------------------------|
| 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 CLASSIFIED AS DANGEROUS FOR TRANSPORT.

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'. (IMDG, ICAO/IATA, ADR/RID).

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|------|-------------------------------------------------------------------------|-----------------|
| 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

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|------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 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) | |
| | 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


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|---------------|---------------------------------------------------------------|
| 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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|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| H319: Causes serious eye irritation. | P280: Wear protective gloves/protective clothing/eye protection/face protection. |
| H315: Causes skin irritation. | P264: Wash (hands and exposed skin) thoroughly after handling. |
| H335: May cause respiratory irritation. | 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. |
| | P362: Take off contaminated clothing. |

Disclaimers

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