


**SAFETY DATA SHEET**


OSHA HCS (29 CFR 1910.1200); WHMIS Classification

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

|  |   |
|--|---|
| <b>1.1 Product identifier</b>  |   |
| Product Name   | DRAQ9   |
| Product Code   | DR90200; DR91000  |
| CAS No.  | None assigned   |
| EINECS No.   | None assigned   |
| REACH Registration No.   | None assigned   |
| <b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b> |   |
| Identified Use(s)  | Fluorescent Cytoplasmic Dye<br>SU24 Scientific research and development                             |
| <b>1.3 Details of the supplier of the safety data sheet</b>                              |   |
| Company Identification   | BioStatus Limited<br>56A Charnwood Road<br>Shepshed<br>Leicestershire<br>LE12 9NP<br>United Kingdom |
| Telephone  | T: +44 1509 558 163   |
| Fax  | F: +44 1509 651 061   |
| E-Mail (competent person)  | E: enquiry@biostatus.com<br>W: www.biostatus.com  |
| <b>1.4 Emergency telephone number</b>  |   |
| Emergency Phone No.  | +44 1509 558 163<br>(Hours of operation 09.00-18.00 GMT Mon-Fri)                                    |

**2. SECTION 2: HAZARDS IDENTIFICATION**

|   |   |
|---|---|
| <b>2.1 Classification of the substance or mixture</b> |   |
| Product Description                                   | Mixture<br>Blue. Clear. Liquid.   |
| OSHA HCS (29 CFR 1910.1200)                           | Hazardous Ingredient(s)   |
| WHMIS Classification                                  | Class D, Division 2, Subdivision B, Toxic Material  |
| <b>2.2 Label elements</b>                             | According to Regulation (EC) No. 1272/2008 (CLP)  |
| Product Name  | DRAQ9   |
| Hazard Pictogram(s)                                   |    |
| Signal Word(s)  | Warning   |
| Hazard Statement(s)                                   | H315: Causes skin irritation.<br>H319: Causes serious eye irritation.<br>H335: May cause respiratory irritation.  |
| Precautionary Statement(s)                            | P280: Wear protective gloves/protective clothing/eye protection/face protection.<br>P264: Wash (hands and exposed skin) thoroughly after handling.<br>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P312: Call a POISON CENTER/doctor if you feel unwell.<br>P332+P313: If skin irritation occurs: Get medical advice/attention.<br>P362: Take off contaminated clothing. |

|   |                |           |
|---|----------------|-----------|
|  | Document Ref:  | DR9NZ.SDS |
|   | Revision #:    | 001       |
|   | Revision date: | 08/06/17  |

- 2.3 Other hazards** 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                               |
|---|----|---------------|-----------------------------|--|
| Proprietary derivative of 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 |
| Dimethyl sulfoxide  | 99 | 67-68-5       | EINECS-No 200-664-3         |  |

#### 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

In case of fire, use water spray, foam, dry powder or CO<sub>2</sub> for extinction.

#### 5.2 Special hazards arising from the substance or mixture

Sulfur oxides.

#### 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 | <b>Personal precautions, protective equipment and emergency procedures</b> | Remove all ignition sources. Avoid breathing vapours. Wear suitable protective clothing, gloves and eye/face protection.   |
| 6.2 | <b>Environmental precautions</b>   | Cover with absorbent or contain. Collect and dispose.  |
| 6.3 | <b>Methods and material for containment and cleaning up</b>                | 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 | <b>Reference to other sections</b>   | 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 | <b>Precautions for safe handling</b>   | For professional users only.<br>Observe the usage / storage instructions.<br>Wear suitable protective clothing, gloves and eye/face protection.<br>Avoid breathing vapours.<br>Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes.<br>Always wash hands before smoking, eating and drinking. |
| 7.2 | <b>Conditions for safe storage, including any incompatibilities</b><br>Storage temperature<br>Storage life<br>Incompatible materials | Storage temperature (°C): -20.<br>Observe directions on label and instructions for use. None anticipated.   |
| 7.3 | <b>Specific end use(s)</b>   | Fluorescent Cytoplasmic Dye<br>SU24 Scientific research and development   |

## 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- |       |   |  |
|-------|---|--|
| 8.1   | <b>Control parameters</b><br>Exposure limit values<br>USA (NIOSH/OSHA)<br>BEI: Biological Exposure Indices (ACGIH)<br>OEL (Ireland)<br>Japan (ENCS) | Not determined.<br>Not determined.<br>Not determined.<br>Not determined.<br>Not determined.  |
| 8.2   | <b>Exposure controls</b>  |  |
| 8.2.1 | <b>Appropriate engineering controls</b>   | Provide adequate ventilation.  |
| 8.2.2 | <b>Personal protection equipment</b>  |  |
|       | Eye/face protection   | <br>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 | <b>Information on basic physical and chemical properties</b><br>Appearance<br>Color.<br>Odor<br>Odor Threshold | Colored liquid.<br>Blue.<br>Not available.<br>Not available. |
|-----|--|--|

|  |                |
|--|----------------|
| pH   | Not available. |
| Melting Point/Freezing Point                 | 18-19 °C       |
| Initial boiling point and boiling range      | 188–190 °C     |
| Flash point                                  | 87-89 °C       |
| Evaporation Rate                             | Not available. |
| Flammability (solid, gas)                    | 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. |
| <b>9.2 Other information</b>                 | None known.    |

## 10. SECTION 10: STABILITY AND REACTIVITY

|  |   |
|--|---|
| <b>10.1 Reactivity</b>                         | None known.                                 |
| <b>10.2 Chemical stability</b>                 | Stable at ambient temperatures.             |
| <b>10.3 Possibility of hazardous reactions</b> | None known.                                 |
| <b>10.4 Conditions to avoid</b>                | None known.                                 |
| <b>10.5 Incompatible materials</b>             | Strong oxidizing agents. Strong Alkalis.    |
| <b>10.6 Hazardous decomposition product(s)</b> | None known. In case of fire: See Section: 5 |

## 11. SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

| Chemical Name      | LD50         | LD50            | LD50             |
|--------------------|--------------|-----------------|------------------|
|                    | Oral (rat)   | Dermal (rabbit) | Inhalation (rat) |
| Dimethyl sulfoxide | 14,500 mg/kg | 5,000 mg/kg     | 4 h - 40250 ppm  |

#### Mixture

Warning - this preparation contains a substance not yet tested completely.


|                                  |   |
|----------------------------------|---|
| <b>Acute toxicity</b>            | Not determined. No information available. |
| <b>Irritation</b>                | Not determined. No information available. |
| <b>Corrosivity</b>               | Not determined. No information available. |
| <b>Sensitization</b>             | Not determined. No information available. |
| <b>STOT - single exposure</b>    | Not determined. No information available. |
| <b>Repeated dose toxicity</b>    | Not determined. No information available. |
| <b>Carcinogenicity</b>           | Not determined. No information available. |
| <b>Mutagenicity</b>              | Not determined. No information available. |
| <b>Toxicity for reproduction</b> | 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

|   |                |           |
|---|----------------|-----------|
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| Chemical Name      | LC50LD50<br>(Fathead minnow<br>(Pimephales promelas)) | LC50<br>(Rainbow<br>trout) | LC50<br>(Daphnia<br>magna) |
|--------------------|---|----------------------------|----------------------------|
| Dimethyl sulfoxide | 34,000 mg/l<br>96 hmg/kg                              | 35,000 mg/l<br>96 h        | 27,500 mg/l                |

**Mixture**

Warning - this preparation contains a substance not yet tested completely.

|  |   |
|--|---|
| <b>12.2 Persistence and degradability</b>      | Not determined. No information available. |
| <b>12.3 Bioaccumulative potential</b>          | Not determined. No information available. |
| <b>12.4 Mobility in soil</b>                   | Not determined. No information available. |
| <b>12.5 Results of PBT and vPvB assessment</b> | Not determined. No information available. |
| <b>12.6 Other adverse effects</b>              | Not determined. No information available. |

**13. SECTION 13: DISPOSAL CONSIDERATIONS**

|                                     |   |
|-------------------------------------|---|
| <b>13.1 Waste treatment methods</b> | Disposal should be in accordance with local, state or national legislation. |
| <b>13.2 Additional Information</b>  | Wear suitable protective clothing, gloves and eye/face protection.          |

**14. SECTION 14: TRANSPORT INFORMATION**

NOT CLASSED AS DANGEROUS FOR TRANSPORT.

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

|   |                 |
|---|-----------------|
| <b>14.1 UN number</b>   | Not applicable. |
| <b>14.2 UN proper shipping name</b>   | Not applicable. |
| <b>14.3 Transport hazard class(es)</b>  | Not applicable. |
| <b>14.4 Packing group</b>   | Not applicable. |
| <b>14.5 Environmental hazards</b>   | None known.     |
| <b>14.6 Special precautions for user</b>  | Not applicable. |
| <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |

**15. SECTION 15: REGULATORY INFORMATION**

|  |  |
|--|--|
| <b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b> |  |
| 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   |
| <b>Canada</b>  |  |
| WHMIS Classification   | Class D, Division 2, Subdivision B, Toxic Material |
| PIN Number   | Not applicable.                                    |
| CANADA INGREDIENT DISCLOSURE LIST  | None   |
| <b>15.2 Chemical Safety Assessment</b>   | 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)

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

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. BioStatus gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. BioStatus accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

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