SAFETY DATA SHEET
DRAQ5
According to Regulation (EU) No 453/2010

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

1.1. Product identifier
Product name DRAQ5
Synonyms, Trade Names DR50050, DR50200, DR51000, DR10100, DR05500, DR05502, DR05505, ab108410, 4084S, 4084L, 65-0880-92, 65-0880-96, 62254, 62251, 62252

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses Fluorescent DNA Dye

1.3. Details of the supplier of the safety data sheet
Supplier BioStatus Limited
56a Charnwood Road
Shepshed
Leicestershire
LE12 9NP United Kingdom
T: +44 1509 558 163
E: enquiry@biostatus.com
W: www.biostatus.com

1.4. Emergency telephone number
+44 1509 558 163 (Hours of operation 9.00-18.00 GMT Mon-Fri)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical and Chemical Hazards Not classified.
Human health Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; STOT SE 3 - H335
Environment Not classified.
Classification (1999/45/EEC) Xi; R36/37/38.
The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Human health
Warning - this preparation contains a substance not yet tested completely. The liquid may irritate the skin, the eyes and the respiratory tract.

2.2. Label elements
Label In Accordance With (EC) No. 1272/2008

Signal Word Warning
Hazard Statements
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
Precautionary Statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Supplementary Precautionary Statements

P264 Wash contaminated skin thoroughly after handling.
P305+351+338 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 or doctor/physician if you feel unwell.
P332+313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

2.3. Other hazards

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<table>
<thead>
<tr>
<th>1,5-BIS[[2-(DI-METHYLAMINO) ETHYL]AMINO]-4, 8-DIHYDROXYANTHRACENE-9,10-DIONE</th>
<th>&lt; 1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.:</td>
<td>EC No.:</td>
</tr>
<tr>
<td>Classification (EC 1272/2008)</td>
<td>Classification (67/548/EEC)</td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td>Xi;R36/37/38.</td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
<td></td>
</tr>
<tr>
<td>STOT SE 3 - H335</td>
<td></td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

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

Due to the small packaging the risk of inhalation is minimal.

Ingestion

Due to the small packaging the risk of ingestion is minimal. Rinse mouth thoroughly. Get medical attention immediately!

Skin contact

Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention promptly if symptoms occur after washing.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention promptly if symptoms occur after washing.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation

Irritation of nose, throat and airway.

Ingestion

May cause stomach pain or vomiting.

Skin contact

Skin irritation.

Eye contact

Irritation of eyes and mucous membranes.

4.3. Indication of any immediate medical attention and special treatment needed
DRAQ5

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media
Extinguishing media
This product is not flammable.

5.2. Special hazards arising from the substance or mixture
Hazardous combustion products
None under normal conditions.
Unusual Fire & Explosion Hazards
No unusual fire or explosion hazards noted.
Specific hazards
No specific precautions due to the small quantities handled.

5.3. Advice for firefighters
Special Fire Fighting Procedures
Water spray should be used to cool containers.
Protective equipment for fire-fighters
Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions
Do not allow ANY environmental contamination.

6.3. Methods and material for containment and cleaning up
Wear necessary protective equipment. Absorb spillage with suitable absorbent material. Collect in containers and seal securely. Remove containers and flush area with water.

6.4. Reference to other sections
Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Restricted to professional users. Read and follow manufacturer’s recommendations. Do not handle broken packages without protective equipment. Avoid spilling, skin and eye contact. Avoid eating, drinking and smoking when using the product.

7.2. Conditions for safe storage, including any incompatibilities
Protect from freezing and direct sunlight. Store at +4°C Protect against physical damage and/or friction.

7.3. Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSOAL PROTECTION

8.1. Control parameters
Ingredient Comments
No exposure limits noted for ingredient(s).
8.2. Exposure controls

Protective equipment

Engineering measures
Provide adequate ventilation.

Respiratory equipment
No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Hand protection
Wear protective gloves. Rubber gloves are recommended.

Eye protection
Wear approved safety goggles.

Other Protection
Wear appropriate clothing to prevent reasonably probable skin contact.

Hygiene measures
Wash hands at the end of each work shift and before eating, smoking and using the toilet.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Coloured liquid.</td>
</tr>
<tr>
<td>Colour</td>
<td>Dark blue.</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range (°C)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting point (°C)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour density (air=1)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation Factor</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH-Value, Conc. Solution</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH-Value, Diluted Solution</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility Value (G/100G H2O@20°C)</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
No specific reactivity hazards associated with this product.

10.2. Chemical stability
Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions
Hazardous Polymerisation
Will not polymerise.

10.4. Conditions to avoid
There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials
Materials To Avoid
Strong oxidising substances. Strong alkalis.

10.6. Hazardous decomposition products
None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Toxicological information
Warning - this preparation contains a substance not yet tested completely.

Acute toxicity:
Acute Toxicity (Oral LD50)
Not determined.
Toxicological studies are not yet available.
Acute Toxicity (Dermal LD50)
Not determined.
Toxicological studies are not yet available.

Acute Toxicity (Inhalation LC50)
Not determined.
Toxicological studies are not yet available.

Skin Corrosion/Irritation:
Toxicological studies are not yet available.

Serious eye damage/irritation:
Toxicological studies are not yet available.

Respiratory or skin sensitisation:
There is no evidence that the material can lead to respiratory hypersensitivity. May cause sensitisation by skin contact.

Germ cell mutagenicity:
Genotoxicity - In Vitro
No mutagenic effects expected.
Toxicological studies are not yet available.
Genotoxicity - In Vivo
No mutagenic effects expected.
Toxicological studies are not yet available.

Carcinogenicity:
Carcinogenicity
Not determined.
Toxicological studies are not yet available.
Limited evidence of a carcinogenic effect.

Reproductive Toxicity:
Reproductive Toxicity - Fertility
Not determined.
Toxicological studies are not yet available.
Possible reproductive impact.
Reproductive Toxicity - Development
Not determined.
Toxicological studies are not yet available.
May damage the unborn child.

Specific target organ toxicity - single exposure:
STOT - Single exposure
Not determined.
Toxicological studies are not yet available.

Specific target organ toxicity - repeated exposure:
STOT - Repeated exposure
Not determined.
Toxicological studies are not yet available.

Inhalation
Upper respiratory irritation.
Ingestion
Harmful: possible risk of irreversible effects if swallowed.

Skin contact
Irritating to skin.

Eye contact
Irritating and may cause redness and pain.

Health Warnings
Prolonged exposure to the preparation may cause serious health effects. Limited evidence of a carcinogenic effect. Possible reproductive impact.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
The product is not expected to be hazardous to the environment.

12.1. Toxicity
Acute Fish Toxicity
The product is not expected to be toxic to aquatic organisms.

12.2. Persistence and degradability
Degradability
The degradability of the product has not been stated.

12.3. Bioaccumulative potential
Bioaccumulative potential
No data available on bioaccumulation.
Partition coefficient
Not available.

12.4. Mobility in soil
Mobility:
Mobile.

12.5. Results of PBT and vPvB assessment
Warning - this preparation contains a substance not yet tested completely.

12.6. Other adverse effects
None known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information
When handling waste, consideration should be made to the safety precautions applying to handling of the product. Only experts should be permitted to carry out disposal of this material.

13.1. Waste treatment methods
Dispose of waste and residues in accordance with local authority requirements. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 14: TRANSPORT INFORMATION

General
The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
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
Environmentally Hazardous Substance/Marine Pollutant
No.

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.

SECTION 15: REGULATORY INFORMATION

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

15.2. Chemical Safety Assessment
No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Safety Data Sheet Status  Approved.
Risk Phrases In Full
R36/37/38 Irritating to eyes, respiratory system and skin.

Hazard Statements In Full
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H335 May cause respiratory irritation.

Disclaimer
This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.