

## 1 Identification

### GHS Product Identifier

MultiCyt Cell Proliferation Dye (FL1)

iQue FL4

iQue PLUS BL1

Contains: Dimethylsulfoxide 60%

### Other means of identification

Product Number: 90354-90356

### Recommended use of the chemical and restriction on use

**SU24** scientific research and development.

This product is manufactured and sold by IntelliCyt Corporation for research use only. The kit and components are not intended for diagnostic or therapeutic use.

### Supplier's details

IntelliCyt Corporation  
9620 San Mateo Blvd. NE  
Albuquerque, NM 87113  
USA

### Emergency phone number

+1 505-345-9075

## 2 Hazard(s) identification

### Classification of the substance or mixture

#### Health Hazard

| Category | Hazard          |
|----------|-----------------|
| 2        | skin irritation |
| 2a       | eye irritation  |

#### Physical Hazard

| Category | Hazard             |
|----------|--------------------|
|          | combustible liquid |

### GHS label elements

Warning



Combustible liquid

Causes skin and eye irritation

Do not spray on an open flame or other ignition source.

Wash hands thoroughly after handling.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation or rash occurs: Get medical advice/attention.

### 3 Composition/information on ingredients

| Description       | CAS Number | EINECS Number | %  | Note |
|-------------------|------------|---------------|----|------|
| Dimethylsulfoxide | 67-68-5    | 200-664-3     | 60 |      |

### 4 First-aid measures

#### Description of necessary first-aid measures

**Eye Exposure:** Hold eye open and rinse slowly and gently flush with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Clothing and/or Skin Exposure:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice

**If Inhaled:** Move person to fresh air. Call a poison control center or doctor for further treatment advice.

**If Swallowed:** Call a poison control center or physician immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

#### Most important symptoms/effects, acute and delayed

Symptoms and effects unlikely to be acute or delayed.

#### Indication of immediate medical attention and special treatment needed, if necessary

No additional special treatment.

### 5 Fire-fighting measures

#### Suitable extinguishing media

**Extinguishing media:** Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.

**Unsuitable extinguishing media:** Strong water jet.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately ventilated. Do not breathe mist/vapors/spray.

### Environmental precautions

Do not empty into drains. Avoid release to the environment.

### Methods and materials for containment and cleaning up

Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulations.

## 7 Handling and storage

### Precautions for safe handling

Use only in well-ventilated areas. Handle and open container with care. Always close containers tightly after removal of product.

Follow recommendations for handling pharmaceutical agents (i.e., use of engineering controls and/or other personal protective equipment if needed). Avoid contact with skin, eyes and clothing. Provide eye shower and label its location conspicuously. Wash hands and face before breaks and after working with product. When using product, do not eat, drink, smoke, sniff.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed, in a well-ventilated place. Freezes (solidifies) at 18°C (64°F). Store in a cool dry area, away from heat, sparks and open flame. Keep containers sealed when not in use. Store out of direct sunlight. Prolonged heating above 150°C (302°F) can cause rapid, exothermic decomposition

## 8 Exposure controls/personal protection

### Control parameters

Facilities storing or using this material should be equipped with eyewash facility and a safety shower. Use process enclosures and local exhaust ventilation.

### Appropriate engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

### Individual protection measures

**Respiratory protection:** Respiratory protection is not required.

**Hand protection:** Handle with gloves. Inspect gloves prior to use.

Gloves: Natural latex, Natural rubber, Nitrile.

Use proper glove removal technique (without touching glove's surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

**Skin protection:** Choose skin protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. For this product wear lab coat.

**Eye/face protection:** Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.

**Environmental Exposure Controls:** Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel.

**Other protective measures:** Wash hands in the event of contact with this product/mixture, especially before eating, drinking or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors).

## 9 Physical and chemical properties

### Physical and chemical properties

|  |   |
|--|---|
| Physical State                         | Liquid  |
| Appearance                             | Colorless   |
| Odor                                   | Odorless  |
| Odor Threshold                         | N/A   |
| pH                                     | 8.5   |
| Melting Point/Range                    | N/A   |
| Boiling Point/Range                    | 189°C (372°F)                                     |
| Flash Point                            | 89°C (192°F) Closed Cup,<br>95°C (203°F) Open Cup |
| Evaporation Rate                       | 0.026 (n-butyl acetate = 1)                       |
| Flammability (solid,gas)               | N/A   |
| Flammability/explosive limits          |   |
| Upper                                  | 3.0-3.5% by volume                                |
| Lower                                  | 42-63% by volume                                  |
| Vapor Pressure                         | 0.55 mbar (0.46 mmHg)<br>@ 20°C (68°F)            |
| Vapor Density                          | 2.7   |
| Specific Gravity                       | 1.1 @ 20°C (68°F)<br>(water=1)                    |
| Solubility                             | Miscible  |
| Partition coefficient; n-octanol/water | Not measured                                      |
| Autoignition Temperature               | 300-302°C (572-575°F)                             |
| Decomposition Temperature              | Not measured                                      |
| Viscosity                              | 2.0 mPas or cP (@ 25°C/77°F)                      |

## 10 Stability and reactivity

### Reactivity

Hazardous Polymerization will not occur.

### Chemical stability

Stable under normal circumstances.

### Possibility of hazardous reactions

No data available.

### Conditions to avoid

Prolonged heating above 150°C (302°F) can cause rapid, exothermic decomposition.

### Incompatible materials

Organic and inorganic acid chlorides, strong oxidizing agents, alkali metals, hydrobromic acid, acidic solutions of alkali bromides.

### Hazardous decomposition products

Sulfur dioxide, formaldehyde, methyl mercaptan, dimethyl sulfide, dimethyl disulfide, and bis (methylthio) methane.

## 11 Toxicological information

### Toxicological (health) effects

Not classified.

### Numerical measures of toxicity (such as acute toxicity estimates)

Acute Toxicity

| Ingredient                           | Oral LD50,<br>mg/kg            | Skin LD50,<br>mg/kg | Inhalation<br>Vapor LD50,<br>mg/L/4hr | Inhalation Gas<br>LD50, ppm | Inhalation<br>Dust/Mist<br>LD50,<br>mg/L/4hr |
|--------------------------------------|--------------------------------|---------------------|---------------------------------------|-----------------------------|--|
| Methane,<br>sulfinylbis<br>(67-68-5) | 14,500.00, Rat<br>Category: NA | 5,000.00,<br>Rabbit | No data<br>available                  | No data<br>available        | 40,250.00, Rat<br>Category: NA               |

### Interactive effects

No data available.

### Information on the likely routes of exposure

Skin, eyes.

### Symptoms related to the physical, chemical and toxicological characteristics

Irritation or burning.

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Mutagenicity:** No evidence of a mutagenic effect.

**Teratogenicity:** No evidence of a teratogenic effect (birth defect).

**Sensitization:** No evidence of a sensitization effect.

**Reproductive:** No evidence of negative reproductive effects.

## 12 Ecological information

### Toxicity

#### Aquatic Ecotoxicity

| Ingredient                           | 96 hr LC50 fish, mg/l             | 48 hr EC50 crustacea, mg/l  | ErC50 algae, mg/l                             |
|--------------------------------------|-----------------------------------|-----------------------------|---|
| Methane, sulfinylbis-<br>- (67-68-5) | 34,000.00,<br>Pimephales promelas | 25,000.00, Daphnia<br>magna | 12,350.00 (96 hr),<br>Skeletonema<br>costatum |

### Persistence and degradability

No data available.

### Bioaccumulative potential

No data available.

### Mobility in soil

No data available.

### Other adverse effects

Biological Oxygen Demand:

Theoretical Oxygen Demand at 10 ppm: 123mg oxygen

Chemical Oxygen Demand at 10ppm: 107 mg/L

Biological Oxygen Demand-5 at 10 ppm: < 1.0 mg/L

## 13 Disposal considerations

### Disposal methods

Dispose of waste according to directive 2008/98/EC, covering waste and dangerous waste. Do not send down the drain or flush down the toilet. All wastes containing the material should be properly labeled. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g., appropriately permitted municipal or on- site wastewater treatment facility.

## 14 Transport information

### UN Number

N/A

### UN Proper Shipping Name

N/A

### Transport hazard class(es)

N/A

### Packing group, if applicable

N/A

**Environmental hazards**

None

**Special precautions for user**

No special precautions.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

**15 Regulatory information****Safety, health and environmental regulations specific for the product in question****EU Regulation (EC) No. 1907/2006 (REACH):**

Annex XIV - List of substances subject to authorization:

Substances of very high concern: None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market, and use of certain dangerous substances, mixtures, and articles: Not applicable.

**16 Other information****Other information**

The statements contained herein are offered for informational purposes only and are based upon technical data. IntelliCyt Corporation believes them to be accurate at the date of publication, but does not purport to be all-inclusive. The above-stated product is intended for use only by persons having the necessary technical skills and facilities for handling the product at their discretion and risk. Since conditions and manner of use are outside our control, we (IntelliCyt Corporation) make no warranty of merchantability or any such warranty, express or implied with respect to information and we assume no liability resulting from the above product or its use. Users should perform their own investigations to determine suitability of information and product for their particular purposes.