

1 Identification

GHS Product Identifier

MultiCyt Cell Encoder Kit for iQue (FL1, FL4) iQue PLUS (RL1, BL1)

Contains: 60% Dimethylsulfoxide

Other means of identification

Product Numbers: 90354-90356; 90357; 90360

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
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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	serious eye irritation

Physical Hazard

Category	Hazard
4	flammable liquid

GHS label elements

Warning



Combustible liquid

Causes skin irritation

Causes serious eye irritation

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use personal protective equipment as required.

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 occurs: Get medical advice/attention.

If eye irritation persists: 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.

Specific hazards arising from the chemical

No hazards.

Special protective actions for fire-fighters

As with any fire, fire fighters wear self-contained breathing apparatus and full protective gear to prevent contact with skin and eyes.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

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

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container, protected from direct sunlight. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

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, 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) @ 20°C (68°F)
Vapor Density	2.7
Specific Gravity	1.1 @ 20°C (68°F)

	(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

Skin, eye irritation.

Information on the likely routes of exposure

Absorbed through skin. Eye contact. Inhalation. Ingestion.

Symptoms related to the physical, chemical and toxicological characteristics

Hazardous in case of skin contact (irritant), of ingestion. Hazardous in case of skin contact (corrosive), of eye contact (corrosive). Slightly hazardous in case of inhalation (lung sensitizer, lung corrosive).

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

No data available.

Numerical measures of toxicity (such as acute toxicity estimates)

Oral	LD50	Oral 14500 mg/kg (rat)
Dermal	LD50	Dermal 40000 mg/kg (rat)
Inhalative	LC50/4 h Inhalative	40,25 mg/l (rat)

Interactive effects

No data available.

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- - (67-68-5)	34,000.00, Pimephales promelas	25,000.00, Daphnia magna	12,350.00 (96 hr), Skeletonema costatum

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

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

NA1993

UN Proper Shipping Name

Combustible liquid, n.o.s., (Dimethylsulfoxide)

Packing group, if applicable

III

Environmental hazards

Environmentally Hazardous Substance, Liquid, N.O.S

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

For classification and labeling see Section 2.

Observe restrictions.

Comply with trade association/occupational health regulations.

Regulation (EC) No 1907/2006, Annex XVII

Ensure all national/local regulations are observed.

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.