

## 1 Identification

### GHS Product Identifier

QBeads DevScreen: SH (Sulfhydryl)

Contains: Polystyrene beads, coupling buffer, storage buffer with >0.09 sodium azide. The Storage Buffer contains serum proteins. All serum proteins are sourced from USDA inspected abattoirs located in the United States.

### Other means of identification

Product Numbers: 9082-90921

### 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
4	harmful if swallowed
2	causes skin irritation
2B	causes eye irritation
4	harmful if inhaled

### GHS label elements

Warning



Harmful if swallowed, in contact with skin or if inhaled

Causes skin and eye irritation

Read label before use.

Keep container tightly closed.

Keep cool.

Do not get in eyes, on skin, or on clothing.

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

Avoid release to the environment.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Gently wash with plenty of soap and water.

### 3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
sodium azide	26628-22-8	262-822-8	0	

### 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**

Sodium azide yields highly toxic hydrazoic acid under acidic conditions.

### **Special protective actions for fire-fighters**

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

## **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**

Dike area to contain spill. Maintain ventilation until all vapors have been eliminated. Take precautions as necessary to prevent contamination of ground and surface waters. If vials are crushed or broken, DO NOT CAUSE MATERIAL TO BECOME AIRBORNE. For small spills, wear gloves and soak up material with absorbent, e.g., paper towels. For large spills, cordon off spill area and minimize the spreading of spilled material. Soak up material with absorbent. Collect spilled material, absorbent, and rinse water into suitable containers for proper disposal in accordance with applicable waste disposal regulations (see Section 13). Decontaminate the area twice.

## **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 dry and well-ventilated place. Never allow this product to get in contact with water during storage. Do not store near acids. Heat sensitive. Store at 4°C.

## **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

Sodium azide

Physical State	Liquid
Appearance	Clear
Odor	none
pH	7.4
Melting Point/Range	275°C
Boiling Point/Range	300°C
Flash Point	N/A
Evaporation Rate	N/A
Flammability (solid,gas)	Not flammable
Vapor Pressure	N/A
Vapor Density	(air = 1.0): at 20° C, not applicable
Specific Gravity	1.846 (Water = 1)
Solubility	soluble in water

Partition coefficient; n-octanol/water	N/A
Autoignition Temperature	N/A
Decomposition Temperature	N/A
Viscosity	N/A

## 10 Stability and reactivity

### Reactivity

This product contains low concentrations of Sodium Azide <0.1%. Sodium Azide can form explosive compounds with heavy metals which, with repeated contact with lead and copper commonly found in plumbing drains may result in the buildup of shock sensitive compounds.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Sodium azide is present in this product. Contact with acidic solutions and metal compounds over time may form potentially explosive metal azides.

### Conditions to avoid

Heavy metals.

### Incompatible materials

Heavy metals may form extremely explosive azides.

### Hazardous decomposition products

Sodium azide is known to form explosive compounds when it is combined with metal halides and many heavy metals such as, lead, copper, gold and silver.

## 11 Toxicological information

### Toxicological (health) effects

Mild skin irritant.

### Information on the likely routes of exposure

Absorbed through skin. Eye contact. Inhalation. Ingestion.

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

**Skin:** May cause skin irritation.

**Eyes:** Eye irritant.

**Respiratory System:** May be irritating to the respiratory system if inhaled.

### 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)**

Acute toxicity: LD50 oral – Rabbit - 10mg/kg

LC50 inhalation – Rat – 37mg/m<sup>3</sup>

LD50 Dermal – Rabbit – 20mg/kg

Lowest Observed Adverse Effect Level (LOAEL) – 1.25mg/kg body weight

**Interactive effects**

No interactive effects.

**12 Ecological information**

**Toxicity**

To Daphnia and other aquatic invertebrates

EC50 – Daphnia pulex (Water flea) – 4.2mg/l – 48h

**Persistence and degradability**

No data available.

**Bioaccumulative potential**

No data available.

**Mobility in soil**

No data available.

**13 Disposal considerations**

**Disposal methods**

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Sodium azide is present in this product. Contact with acidic solutions and metal compounds over time may form potentially explosive metal azides. An accumulation of sodium azide may result in a reaction with lead or copper plumbing to form explosive metal azide complex. If drain disposed, dilute and flush with copious amount of running water to prevent azide build-up. Sodium Azide is dangerous when in contact with acid.

**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**

N/A

**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.