

**1 Identification**

**GHS Product Identifier**

QSol Buffer Cartridge

Contains: Phosphate Buffered Saline (sodium phosphate, dibasic, potassium diphosphate), NP-40 Surfact-Amps Detergent Solution, 10% Bovine Serum Albumin, with 0.9% Sodium Azide

**Other means of identification**

Product Number: 90282

**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
2A	serious eye irritation
2	skin irritation
4	harmful if swallowed

**Environmental Hazard**

Category	Hazard
1	environmental hazard (sodium azide)

**Physical Hazard**

Category	Hazard
N/A	

## GHS label elements

Danger



Toxic if swallowed or in contact with skin

Causes skin and eye irritation

Keep out of reach of children.

Keep container tightly closed.

Keep only in original packaging.

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

Wash hands/skin. thoroughly after handling.

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

Avoid release to the environment.

IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

IF ON SKIN: Gently wash with plenty of soap and water.

Remove contact lenses, if present and easy to do. Continue rinsing.

## 3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
Sodium phosphate dibasic	7558-79-4	231-448-7	0	
potassium diphosphate	7778-77-0	230-785-7	0	
sodium azide	26628-22-8	262-822-8	0.9	
bovine serum albumin	9048-46-8	232-936-2	0	
NP-40 Surfact-Amps Detergent Solution			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.

## 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

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

#### Potassium diphosphate

Physical State	solid
Appearance	colorless
Odor	odorless
Odor Threshold	N/A
pH	4,2 - 4,6 in 20 g/l water at 20 °
Melting Point/Range	253 °C
Boiling Point/Range	Information not available
Flash Point	N/A
Evaporation Rate	Information not available
Flammability (solid,gas)	Non-flammable
Flammability/explosive limits	
Upper	Information not available
Lower	Information not available
Vapor Pressure	Information not available
Vapor Density	Information not available

Specific Gravity	Information not available
Solubility	water 208 g/l at 20 °C
Partition coefficient; n-octanol/water	Information not available

### Sodium Phosphate Dibasic

Physical State	solid
Appearance	white
Odor	odorless
Odor Threshold	N/A
pH	9.1
Melting Point/Range	
Boiling Point/Range	250 °C (482 °F)
Flash Point	Information not available
Evaporation Rate	Information not available
Flammability (solid,gas)	Information not available
Flammability/explosive limits	Information not available
Upper	
Lower	
Vapor Pressure	Information not available
Vapor Density	4.9
Specific Gravity	Information not available
Solubility	soluble
Partition coefficient; n-octanol/water	Partitioning from water to n-octanol is not applicable.
Autoignition Temperature	Information not available
Decomposition Temperature	Information not available
Viscosity	solid

### Sodium Azide

Physical State	liquid
Appearance	colorless
Odor	N/A
Odor Threshold	N/A
pH	10 at 65 g/l at 25 °C
Melting Point/Range	No Information Available
Boiling Point/Range	No Information Available
Flash Point	No Information Available
Evaporation Rate	No Information Available
Flammability (solid,gas)	No Information Available
Flammability/explosive limits	No Information Available
Upper	
Lower	
Vapor Pressure	No Information Available
Vapor Density	No Information Available
Specific Gravity	No Information Available
Solubility	soluble in water

Partition coefficient; n-octanol/water	No Information Available
Autoignition Temperature	No Information Available
Decomposition Temperature	No Information Available
Viscosity	No Information Available

## 10 Stability and reactivity

### Reactivity

Non-reactive

### 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

N/A

### 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

Skin Irritant/eye 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)**

Sodium phosphate, dibasic

Draize test, rabbit, eye: 500 mg/24H Mild; Draize test, rabbit, skin: 500 mg/24H Mild; Oral, rat: LD50 = 17 gm/kg;

Potassium dihydrogen phosphate

LDLO Rat: 4,640 mg/kg; LD50 Rabbit: > 4,640 mg/kg

sodium azide: LD50 Oral LD50 Dermal LC50 Inhalation 27 mg/kg ( Rat ) 50 mg/kg ( Rat ) 20 mg/kg ( Rabbit )

### **Interactive effects**

No data available.

## **12 Ecological information**

### **Toxicity**

Surfact-Amps NP-40

Acute LC50 10800 µg/l Marine water Crustaceans - Pandalus montagui 48 hours Acute LC50 8600 to 9800 µg/l Fresh water Daphnia - Daphnia magna 48 hours Acute LC50 7200 µg/l Fresh water Fish - Oncorhynchus mykiss 96 hours

potassium diphosphate

LC0 Leuciscus idus (Golden orfe): ca. 900 mg/l; 48 h

Sodium azide: Freshwater Fish Microtox Water Flea Not listed 5.46 mg/L LC50 96 h 0.7 mg/L LC50 96 h 0.8 mg/L LC50 96 h

### **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**

1687

### **UN Proper Shipping Name**

Reagent mixture

### **Transport hazard class(es)**

6.1

### **Packing group, if applicable**

II

### **Environmental hazards**

## 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.