



## DETECTOR SOLUTION

### SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

#### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

Chemical Name	Mixture
CAS No.	Mixture
Trade Name	Detector Solution
Product Code	HS-3, HS-3-L, HS-3-F-X, HS-3-B

**Relevant identified uses of the substance or mixture and uses advised against**

Identified Use(s)	Laboratory / Analytical / Env. Sampling
Uses Advised Against	None assigned.

**Identity of manufacturer/importer and other suppliers**

Company Identification	Berylliant, Inc. 4541 East Fort Lowell Road Tucson, AZ 85712 520-321-7680
Telephone	
E-Mail (competent person)	<a href="mailto:info@berylliant.com">info@berylliant.com</a>

**Emergency telephone number**

Emergency Phone No.	Verisk 3E Emergency Response Hotline: 1-855-243-2288 (inside U.S./North America) 1-760-602-8703 (outside U.S./North America)
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#### SECTION 2: HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

OSHA HCS (29 CFR 1910.1200)

Skin Corr. 1B; Eye Dam. 1; Met. Corr. 1

**Label elements**

Hazard Symbol

**DANGER**

Signal Word(s)

Hazard Statement(s)

H314: Causes severe skin burns and eye damage.

H290: May be corrosive to metals.

Precautionary Statement(s)

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

P264: Wash hands and exposed skin thoroughly after handling.

P234: Keep only in original container.

P301+P330: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Treat symptomatically.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several



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minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P315: Get immediate medical advice/attention.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P363: Wash contaminated clothing before reuse. P315: Get immediate medical advice/attention.

P102: Keep out of reach of children.

### Other hazards

None known.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	% wt.	CAS No.
Ethylenediaminetetraacetic acid disodium salt dihydrate	≤ 2	6381-92-6
Sodium hydroxide	1 - 2	1310-73-2
Sulfonate Dye	< 0.1	Trade Secret
Water	> 95	7732-18-5

## SECTION 4: FIRST AID MEASURES



### Description of first aid measures

Inhalation

Not normally required. Move person to fresh air. If breathing is laboured, administer oxygen. If symptoms develop, obtain medical attention.

Skin Contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get immediate medical advice/attention. Wash contaminated clothing before reuse

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Ingestion

Rinse mouth. Do NOT induce vomiting. Get medical attention.

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

Causes severe skin burns and eye damage. May cause delayed skin necrosis.

### Indication of any immediate medical attention and special treatment needed

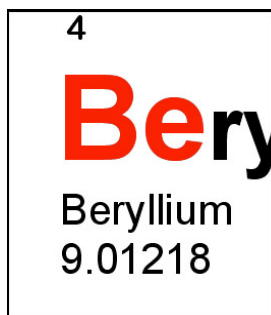
None known.

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

-Suitable Extinguishing Media

Non-flammable / Non-combustible. As appropriate for surrounding fire.



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-Unsuitable Extinguishing Media

None known.

**Special hazards arising from the substance or mixture**

None known.

**Advice for fire-fighters**

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

**Hazardous decomposition product(s)**

Thermal decomposition products include: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Acid smoke.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

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

**Environmental precautions**

Avoid run off to waterways and sewers.

**Methods and material for containment and cleaning up**

Contain spillages with sand, earth or any suitable adsorbent material. Absorb spillage in inert material and shovel up. Transfer to a container for disposal.

**Reference to other sections**

None

**Additional Information**

None

### SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling**

Wear protective gloves/eye protection. Do not get in eyes, on skin, or on clothing.

**Hygiene Measures**

Wash hands and exposed skin thoroughly after handling.

**Environmental Exposure Controls**

Avoid release to the environment.

**Conditions for safe storage, including any incompatibilities**

-Storage temperature

Store at room temperature. Keep only in original or other compatible container.

-Incompatible materials

Acids.

**Specific end use(s)**

Laboratory / Analytical / Env. Sampling

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits**

SUBSTANCE.	CAS No.	(8hr TWA)		STEL		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
None	----	----	----	----	----	----

**Recommended monitoring method**

None

**Exposure controls**



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### Appropriate engineering controls

Guarantee that the eye flushing systems and safety showers are located close to the working place.

### Personal protection equipment

Eye/face protection



Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)



Wear protective gloves. (Neoprene, Nitrile rubber, or Butyl rubber)

Respiratory protection



Not normally required.

### Environmental Exposure Controls

Avoid release to the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

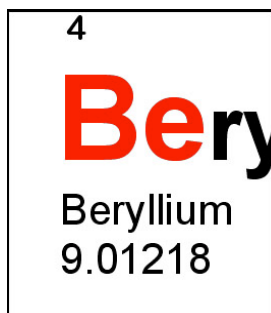
### Information on basic physical and chemical properties

Appearance  
Color.  
Odor  
Odor Threshold (ppm)  
pH (Value)  
Melting Point (°C) / Freezing Point (°C)  
Boiling point/boiling range (°C):  
Flash Point (°C)  
Evaporation Rate  
Flammability (solid, gas)  
Explosive Limit Ranges  
Vapour pressure (Pascal)  
Vapour Density (Air=1)  
Density (g/ml)  
Solubility (Water)  
Solubility (Other)  
Partition Coefficient (n-Octanol/water)  
Auto Ignition Point (°C)  
Decomposition Temperature (°C)  
Kinematic Viscosity (cSt)  
Explosive properties  
Oxidizing properties

Liquid  
Pale amber.  
Almost odourless.  
Not available  
13.1  
~ 0 (~ 32 °F)  
~ 100 (~ 212 °F)  
Non-flammable / Non-combustible.  
Not available  
Not applicable  
Non-flammable / Non-combustible.  
2986  
Not available  
Not available  
Miscible  
Not available  
Not available  
Non-flammable / Non-combustible.  
Not available  
Not available  
Not explosive.  
Not oxidizing.

### Other information

None.



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### SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable.
<b>Possibility of hazardous reactions</b>	None anticipated.
<b>Conditions to avoid</b>	Incompatible materials
<b>Incompatible materials</b>	Acids.
<b>Hazardous decomposition product(s)</b>	Thermal decomposition products include: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Acrid smoke.

### SECTION 11: TOXICOLOGICAL INFORMATION

**Exposure routes:** Skin Contact, Eye Contact

<b>Acute toxicity</b>	Oral: LD50 >2000 mg/kg-bw
<b>Irritation/Corrosivity</b>	Causes severe skin burns and eye damage.
<b>Sensitization</b>	Not to be expected.
<b>Repeated dose toxicity</b>	Not to be expected.
<b>Carcinogenicity</b>	No data.

<b>NTP</b>	<b>IARC</b>	<b>ACGIH</b>	<b>OSHA</b>
No.	No.	No.	No.

<b>Mutagenicity</b>	Not to be expected.
<b>Reproductive toxicity</b>	Not to be expected.

### SECTION 12: ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	
Short term	Not to be expected.
Long Term	Not to be expected.
<b>Persistence and degradability</b>	Not readily biodegradable.
<b>Bioaccumulative potential</b>	Not available.
<b>Mobility in soil</b>	Not available.
<b>Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
<b>Other adverse effects</b>	None known.

### SECTION 13: DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
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### SECTION 14: TRANSPORT INFORMATION

	<b>Land transport (U.S. DOT)</b>	<b>Sea transport (IMDG)</b>	<b>Air transport (ICAO/IATA)</b>
<b>UN number</b>	UN 1824 *	UN 1824	UN 1824
<b>Proper Shipping Name</b>	Sodium hydroxide solution	Sodium hydroxide solution	Sodium hydroxide solution



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Transport hazard class(es)	8	8	8
Packing group	II	II	II
Environmental hazards	No. *	No.	No.
Special precautions for user	None assigned.	None assigned.	None assigned.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

\* Contains an RQ Substance. Shipments exceeding 50,000 lbs require "RQ" designation in proper shipping name. See Section 15.

### SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

**TSCA (Toxic Substance Control Act)** - Inventory Status: All substances listed and active, or exempt. CAS No. 6381-92-6 is listed on TSCA as the anhydrous form represented by CAS No. 139-33-3.

**Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):**

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
Sodium hydroxide	1310-73-2	1 - 2	1000

**SARA 311/312 - Hazard Categories:** See SECTION 2 - HAZARDS IDENTIFICATION

**SARA 313 - Toxic Chemicals (40 CFR 372):**

Chemical Name	CAS No.	Typical %wt.
None	----	----

**SARA 302 - Extremely Hazardous Substances(40 CFR 355):**

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

**California Proposition 65 List:**

Chemical Name	CAS No.	Type of Toxicity
None	----	----

### SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 - 16

**Date of preparation:** November 18, 2019

**Additional Information:** None

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