

## Material Safety Data Sheet

### BRUCINE SULPHATE

#### Section 1. Chemical Product and Company Identification

**MSDS Name :** BRUCINE SULPHATE

**CAS No. :** 4845-99-2

**Synonyms :** -

**Company Identification:**

DUKSAN PURE CHEMICALS

635-1, SUNGKOKDONG, DANWONGU, ANSANSHI, KYUNGKIDO, KOREA

**Production code :** 5061

**Emergency Number:** 82-31-495-4055

#### Section 2. Hazard Identification

**Classification :**

Acute toxicity, Dermal, Category 3

**Hazard Symbol :**



**Signal Word :** Danger

**Hazard Statements :**

H311: Toxic in contact with skin

**Precautionary Statements :**

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

**Section 3. Composition, Information on Ingredients**

Component	CAS Number	Concentration %
BRUCINE SULPHATE	4845-99-2	100

**Section 4. First Aid Measures****4.1. Description of first aid measures**

**Inhalation** : Assure fresh air breathing. Allow the victim to rest. Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing. Specific treatment is urgent (see on this label).

**Skin contact** : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

**Eye contact** : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

**Ingestion** : Do NOT induce vomiting. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor. Rinse mouth.

**4.2. Most important symptoms and effects, both acute and delayed**

**Symptoms relating to use** : Fatal if swallowed. Fatal if inhaled.

**4.3. Indication of any immediate medical attention and special treatment needed**

**General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

## Section 5. Fire Fighting Measures

### 5.1. Extinguishing media

**Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media** : Do not use a heavy water stream.

**Surrounding fires** : Use water spray or fog for cooling exposed containers.

### 5.2. Special hazards arising from the substance or mixture

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

### 5.3. Advice for fire-fighters

**Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.

**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

## Section 6. Accidental Release Measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For emergency responders** : Equip cleanup crew with proper protection. Ventilate area.

**For non-emergency personnel** : Evacuate unnecessary personnel.

### 6.2. Environmental precautions

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

**Clean up methods** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

## Section 7. Handling and Storage

### 7.1. Precautions for safe handling

**Handling** : Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust, fume, gas, mist, vapours, spray. Use only outdoors or in a well-ventilated area.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.

**Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

**Specific end use(s)** : None.

## Section 8. Exposure Control/Personal protection

### 8.1. Exposure controls

**Personal protection** : Avoid all unnecessary exposure.

- **Respiratory protection** : Wear respiratory protection.
- **Hand protection** : Wear protective gloves.
- **Eye protection** : Chemical goggles or safety glasses.
- **Others** : When using, do not eat, drink or smoke.

### 8.2. Control parameters

**Occupational Exposure Limits** : No data available.

## Section 9. . Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

**Physical state at 20 °C** : Solid.

**Colour** : White crystalline

**Odour** : Odorless

**Odour threshold** : No data available.

**pH value** : No data available.

**Melting point [°C]** : No data available.

**Decomposition point [°C]** : N/A

**Critical temperature [°C]** : N/A

**Auto-ignition temperature [°C]** : N/A

**Flammability (solid, gas)** : N/A

**Flash point [°C]** : N/A

**Boiling point [°C]** : N/A

**Initial boiling point [°C]** : N/A

**Final boiling point [°C]** : N/A

**Evaporation rate** : N/A

**Vapour pressure [20°C]** : N/A

**Vapour pressure mm/Hg** : N/A

**Vapour density** : N/A

**Density [g/cm<sup>3</sup>]** : N/A

**Relative density, gas (air=1)** : N/A

**Relative density, liquid (water=1)** : N/A

**Solubility in water [% weight]** : Moderate (1-10%)

**Solubility in water** : N/A

**Log Pow octanol / water at 20°C** : No data available.

**Solubility** : N/A

**Viscosity at 40°C [mm<sup>2</sup>/s]** : N/A

### 9.2. Other information

**Explosive properties** : N/A

**Explosion limits - upper [%]** : N/A

**Explosion limits - lower [%]** : N/A

**Oxidising properties** : No data available.

## **Section 10. Stability and Reactivity**

### **10.1. Reactivity**

**Reactivity** : Not established.

### **10.2. Chemical stability**

**Chemical stability** : Stable under recommended storage conditions.

### **10.3. Possibility of hazardous reactions**

**Hazardous reactions** : Not established.

### **10.4. Conditions to avoid**

**Conditions to avoid** : Direct sunlight. Extremely high or low temperatures.

### **10.5. Incompatible materials**

**Materials to avoid** : Strong acids. Strong bases.

### **10.6. Hazardous decomposition products**

**Hazardous decomposition products** : Fumes. Carbon monoxide. Carbon dioxide.

## **Section 11. Toxicological Information**

### **11.1. Information on toxicological effects**

#### **Acute toxicity**

- **Inhalation** : Fatal if inhaled.
  - **Dermal** : Based on available data, the classification criteria are not met.
  - **Ingestion** : Fatal if swallowed.
- Corrosion** : Based on available data, the classification criteria are not met.

**Irritation** : Based on available data, the classification criteria are not met.

**Sensitization** : Based on available data, the classification criteria are not met.

**Mutagenicity** : Based on available data, the classification criteria are not met.

**Carcinogenicity** : Based on available data, the classification criteria are not met.

**Toxic for reproduction** : Based on available data, the classification criteria are not met.

**STOT-single exposure** : Based on available data, the classification criteria are not met.

**STOT-repeated exposure** : Based on available data, the classification criteria are not met.

**Aspiration hazard** : Based on available data, the classification criteria are not met.

## **Section 12. Ecological Information**

### **12.1. Toxicity**

**Toxicity information** : Harmful to aquatic life with long lasting effects.

### **12.2. Persistence - degradability**

**Persistence - degradability** : May cause long-term adverse effects in the environment.

### **12.3. Bioaccumulative potential**

**Bioaccumulative potential** : Not established.

### **12.4. Mobility in soil**

**Mobility in soil** : Not established.

### **12.5. Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

### **12.6. Other adverse effects**

**Environmental precautions** : Avoid release to the environment.

## **Section 13. Disposal Considerations**

### **13.1. Waste treatment methods**

**General** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**Special precautions** : Hazardous waste due to toxicity.

## **Section 14. Transport Informations**

### **14.1. Land transport (ADR-RID)**

**Proper shipping name** : ALKALOIDS, SOLID, N.O.S. or ALKALOID SALTS, SOLID, N.O.S.

**UN N°** : 1544

**H.I. nr** : 60

**ADR - Class** : 6.1

**ADR - Classification code** : T2

**ADR - Group** : II

**ADR - Packing instructions** : P002

**ADR - Limited Quantity** : 500 G

### **14.2. Sea transport (IMDG) [English only]**

**Proper shipping name** : ALKALOIDS, SOLID, N.O.S. or ALKALOID SALTS, SOLID, N.O.S.

**UN N°** : 1544

**IMO-IMDG - Class or division** : 6.1 : Toxic substances.

**IMO-IMDG - Packing group** : II

**IMO-IMDG - Packing instructions** : P002

**IMO-IMDG - Limited quantities** : 500 g

**IMO-IMDG - Marine pollution** : No

**EMS-Nr** : F-A S-A

### **14.3. Air transport (ICAO-IATA) [English only]**



**Proper shipping name** : ALKALOIDS, SOLID, N.O.S. or ALKALOID SALTS, SOLID, N.O.S.

**UN N°** : 1544

**IATA - Class or division** : 6.1 : Toxic substances.

**IATA - Packing group** : II

**IATA - Passenger and Cargo Aircraft** : ALLOWED

**- Passenger and Cargo - Packing** : 669

**instruction**

**- Passenger and Cargo - Maximum** : 25 kg

**Quantity/Packing**

**IATA - Cargo only** : ALLOWED

**- Cargo only - Packing instruction** : 676

**- Cargo only - Maximum Quantity/** : 100 kg

**Packing**

**IATA - Limited Quantities** : 1 kg

**ERG-Nr** : 6L

## **Section 15. Regulatory Informations**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance**

**or mixture Safety, health and environmental** : Ensure all national/local regulations are observed.

**regulations/legislation specific for the substance or mixture**

**REACH Restrictions - Annex XVII** : The components of this product are not subject to restrictions.

**REACH Authorisation - Annex XIV** : The components of this product are not subject to authorization.

### **15.2. Chemical Safety Assessment**

**Chemical Safety Assessment** : It has not been carried out.

## **Section 16. Other Informations**

**MSDS Creation Date:** 7/04/2017

**Revision #0 Date:** --/--/----

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