Product number: 432001



### **MATERIAL SAFETY DATA SHEET**

# 1. Product and Company Identification

Material name BRULIN 63-G

Product number 432001
Revision date 28-Mar-2006

Company information Brulin & Company, Inc.

P.O. Box 270

Indianapolis, IN 46206 US

www.Brulin.com

Emergency CHEMTREC 1-800-424-9300

General information Phone: 317-923-3211

Fax: 317-925-4596

### 2. Hazards Identification

Emergency overview This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Prolonged exposure may cause chronic effects. Causes severe skin and eye burns.

Harmful if swallowed.

Potential short term health effects

**Routes of exposure** Inhalation. Skin contact. Eye contact Ingestion.

Eyes Avoid contact with eyes. Corrosive to the eyes and may cause severe damage including

blindness.

**Skin** Causes severe skin irritation.

**Inhalation** Harmful if inhaled. Do not breathe gas/fumes/vapor/spray.

Ingestion Harmful if swallowed. Irritating to mouth, throat, and stomach. Do not ingest.

Target organs Eyes. Respiratory system. Skin.

# 3. Composition / Information on Ingredients

Hazardous component(s)	CAS#	Percent
Potassium hydroxide	1310-58-3	< 2.5
Sodium nitrite	7632-00-0	< 10
Sodium Tripolyphosphate	7758-29-4	< 10
Sodium metasilicate	6834-92-0	< 1

### 4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if

irritation develops or persists.

Skin contact Immediately flush skin with running water for at least 20 minutes. Launder contaminated

clothing before reuse. Get medical attention if irritation develops or persists.

**Inhalation** Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth

method if victim inhaled the substance. Call a physician if symptoms develop or persist.

Immediately give large quantities of water to drink. Do not induce vomiting without medical

advice. Get medical attention immediately.

Notes to physician Symptoms may be delayed.

Material ID: 4917 Version #: 1 Revision date: 28-MAR-2006 Print date: 28-MAR-2006

General advice If you feel unwell, seek medical advice (show the label where possible).

Product number: 432001

## 5. Fire Fighting Measures

**Extinguishing media** 

Suitable extinguishing media Small Fires: Dry chemical, CO2, water spray or regular foam.

Large Fires: Water spray, fog or regular foam.

### 6. Accidental Release Measures

Personal precautions Do not touch or walk through spilled material. Do not touch damaged containers or spilled

material unless wearing appropriate protective clothing.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not contaminate water.

**Methods for containment** Stop the flow of material, if this is without risk. Dike the spilled material, where this is

possible. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up Never return spills in original containers for re-use.

Large Spills: Absorb with earth, sand or other non-combustible material and transfer to

containers for later disposal. Dike far ahead of liquid spill for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. Should not be released into the environment. Soak up with inert

absorbent material and dispose of as hazardous waste.

## 7. Handling and Storage

Handling Handle and open container with care. Do not breathe gas/fumes/vapor/spray. Avoid

contact with skin and eyes.

Keep out of the reach of children. Keep at temperatures between 4 and 43°C. Storage

## 8. Exposure Controls / Personal Protection

#### **Exposure guidelines**

ACGIH - Threshold Limits Values - Ceilings (TLV-C)

Potassium hydroxide 1310-58-3 2 Mg/m3 Ceiling **ACGIH - Threshold Limits Values - TLV Basis - Critical Effects** irritation; corrosion 1310-58-3 Potassium hydroxide

Personal protective equipment

Eye / face protection Goggles. or face-shield

Skin protection Avoid contact with the skin. Wear appropriate chemical resistant gloves.

Not normally needed. When workers are facing concentrations above the exposure limit Respiratory protection

they must use appropriate certified respirators.

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with General hygeine considerations

## 9. Physical & Chemical Properties

Not available **Appearance** Clarity Not available Color light yellow **Form** Liquid. Odor mild

**Odor threshold** Not available **Physical state** Liquid 13.5 pН 30 °F **Melting point** 

Freezing point Not available 212 °F **Boiling point** Flash point > 212

Material name: BRULIN 63-G MSDS US Material ID: 4917 Version #: 1 Revision date: 28-MAR-2006 Print date: 28-MAR-2006

Product number: 432001

Evaporation rate Not available Flammability limits in air, lower, % Not available

by volume

Flammability limits in air, upper, %

by volume

Not available

Vapor pressure 17
Vapor density 0.6
Specific gravity 1.133

Relative density

Solubility (H2O)

Not available
100 %

Octanol/H2O coeffNot availableAuto-ignition temperatureNot availableDecomposition temperatureNot available

VOC (Weight %) 0 %

## 10. Chemical Stability & Reactivity Information

Chemical stability Stable at normal conditions.

Conditions to avoid None known.

Hazardous decomposition products At thermal decomposition temperatures, carbon monoxide and carbon dioxide. and

nitrogen oxides (NOx)

Possibility of hazardous reactions Will not occur.

## 11. Toxicological Information

Acute effects Acute LD50: 1513 mg/kg, Rat, Oral

Acute eye irritation/corrosion

**Local effects** Harmful if swallowed.

**Chronic effects** Prolonged exposure may cause chronic effects.

# 12. Ecological Information

Ecotoxicity Components of this product are hazardous to aquatic life.

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or

disposal.

Material ID: 4917 Version #: 1 Revision date: 28-MAR-2006 Print date: 28-MAR-2006

## 13. Disposal Considerations

Waste codes D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

**Disposal instructions** Dispose in accordance with all applicable regulations. This material and its container must

be disposed of as hazardous waste. Do not dispose of waste into sewer.

Product number: 432001

## 14. Transport Information

#### Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name Corrosive liquids, n.o.s. (POTASSIUM HYDROXIDE RQ

= 23.0000 lbs, SODIUM METASILICATE)

Hazard class 8

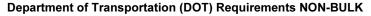
UN number UN1760

Packaging group ||

Additional information:

Special provisions B2, IB2, T11, TP2, TP27

Packaging exceptions154Packaging non bulk202Packaging bulk242ERG number154



Basic shipping requirements:

Proper shipping name Corrosive liquids, n.o.s. (POTASSIUM HYDROXIDE RQ

= 23.0000 lbs, SODIUM METASILICATE)

Hazard class 8

UN number UN1760

Packaging group

Additional information:

Special provisions B2, IB2, T11, TP2, TP27

Packaging exceptions 154
Packaging non bulk 202
Packaging bulk 242

**IATA** 

**IMDG** 

Basic shipping requirements:

Proper shipping name Corrosive liquid, n.o.s. (POTASSIUM HYDROXIDE,

SODIUM METASILICATE)

Hazard class 8

UN number UN1760

Packaging group

Additional information:

Packaging exceptions 154

Basic shipping requirements:

Proper shipping name CORROSIVE LIQUID, N.O.S. (POTASSIUM

HYDROXIDE, SODIUM METASILICATE)

Hazard class 8

UN number UN1760

Packaging group ||

Additional information:

Packaging exceptions 154



**DOT NON-BULK** 



**IATA** 



**IMDG** 



Product number: 432001

## 15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

Yes

chemical

**CERCLA (Superfund) reportable quantity** 

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical Yes

Inventory status

Country(s) or region Inventory name

Australia Australian Inventory of Chemical Substances (AICS)

Canada Domestic Substances List (DSL)

China Inventory of Existing Chemical Substances in China (CCS)

Korean Inventory of Chemicals (KICS)

Philippines Philippine Inventory of Chemicals and Chemical Substances (PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

International regulations The product is classified and labelled in accordance with EC directives or respective

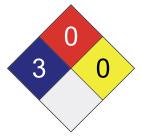
national laws.

#### 16. Other Information

#### **HMIS** rating



#### NFPA codes



Prepared date

28-Mar-2006 14:28:46

Material ID: 4917 Version #: 1 Revision date: 28-MAR-2006 Print date: 28-MAR-2006

Product number: 432001

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.