

# **Safety Data Sheet**

Issue Date: 12-Nov-2018 Revision Date: 20-Nov-2018 Version 1

# 1. IDENTIFICATION

Product identifier

Product Name Bru-R-Ez

Other means of identification

**SDS #** BIR-064

Product Code 100122 UN/ID No UN1759

Recommended use of the chemical and restrictions on use

Recommended Use Alkaline non-caustic cleaner for mash tun, brew kettle, fermenters, heat exchanger, lines,

kegs, etc. for brewing industry.

Details of the supplier of the safety data sheet

Supplier Address Birko Corporation 9152 Yosemite Street Henderson, CO 80640-8027 www.birkocorp.com

Emergency telephone number

**Company Phone Number** Phone: 303-289-1090 or 1-800-525-0476

Fax: 303-289-1190

Emergency Telephone Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

AppearanceLight tan powderPhysical stateSolidOdorDetergent

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

### Signal Word

Danger

### **Hazard statements**

Harmful if swallowed Harmful if inhaled

Causes severe skin burns and eye damage



#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area

Do not breathe dusts or mists

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

### <u>Precautionary Statements - Response</u>

Immediately call a POISON CENTER or doctor

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Immediately call a POISON CENTER or doctor

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Rinse mouth

Do NOT induce vomiting

### **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Other hazards

Harmful to aquatic life with long lasting effects

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Sodium carbonate	497-19-8	20-30
Sodium percarbonate	15630-89-4	20-30
Sodium metasilicate	6834-92-0	10-20

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret. \*\*

# 4. FIRST AID MEASURES

# **Description of first aid measures**

**General Advice** Immediately call a poison center or doctor/physician.

**Eye Contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

**Skin Contact** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

**Inhalation** Remove person to fresh air and keep comfortable for breathing. Immediately call a poison

center or doctor/physician.

Ingestion Call a poison center or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce

vomiting.

# Most important symptoms and effects, both acute and delayed

Symptoms May be harmful in contact with skin. Harmful if swallowed. Harmful if inhaled. Causes

severe skin burns and eye damage.

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

Notes to Physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

### **Specific Hazards Arising from the Chemical**

Not determined.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions**Use personal protective equipment as required.

Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

# Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on Safe Handling Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or

smoke when using this product. Use only outdoors or in a well-ventilated area. Do not breathe dusts or mists. Wear protective gloves/protective clothing and eye/face protection.

### Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up.

**Incompatible Materials**None known based on information supplied.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium metasilicate	2 mg/m³	2 mg/m <sup>3</sup>	-
6834-92-0	_	_	

### **Appropriate engineering controls**

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and Body Protection** Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection** Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state Solid

AppearanceLight tan powderOdorDetergentColorlight tanOdor ThresholdNot determined

Property Values Remarks • Method

pH

Melting point / freezing point
Boiling point / boiling range
Flash point
Evaporation Rate
Flammability (Solid, Gas)
Flammability Limit in Air

T11.7 @ 1%
Not determined
Not determined
Not determined
Not determined

Upper flammability or explosive Not determined

limits

Lower flammability or explosive Not determined

limits

**Vapor Pressure** Not determined **Vapor Density** Not determined **Relative Density** Not determined **Water Solubility** Not determined Solubility in other solvents Not determined **Partition Coefficient** Not determined **Autoignition temperature** Not determined **Decomposition temperature** Not determined Kinematic viscosity Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

# 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

### **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

None under normal processing.

# **Conditions to Avoid**

Keep out of reach of children.

# Incompatible materials

None known based on information supplied.

### **Hazardous decomposition products**

None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Eye Contact** Avoid contact with eyes.

**Skin Contact** May be harmful in contact with skin.

**Inhalation** Harmful if inhaled.

**Ingestion** Harmful if swallowed.

# **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Tripolyphosphate Anhydrous 7758-29-4	= 3120 mg/kg ( Rat )	> 7940 mg/kg(Rabbit)	-
Sodium carbonate 497-19-8	= 4090 mg/kg (Rat)	-	-
Sodium percarbonate 15630-89-4	= 1034 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Sodium metasilicate 6834-92-0	= 1153 mg/kg (Rat)	-	-
Ethoxylated Polyoxypropylene 9003-11-6	= 5700 mg/kg (Rat) = 16 g/kg ( Rat)	-	= 320 mg/m <sup>3</sup> ( Rat ) 4 h
Sodium Silicate 1344-09-8	= 1960 mg/kg (Rat)	> 4640 mg/kg (Rabbit)	-

# Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Causes severe skin burns.

Serious eye damage/eye

irritation

Causes severe eye damage.

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or

potential carcinogens as listed by OSHA, IARC or NTP.

### **Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

 Oral LD50
 1,942.10 mg/kg

 Dermal LD50
 3,782.98 mg/kg

 ATEmix (inhalation-dust/mist)
 1.71 mg/L

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

### **Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea
Sodium Tripolyphosphate Anhydrous 7758-29-4		1650: 48 h Leuciscus idus mg/L LC50	
Sodium carbonate 497-19-8	242: 120 h Nitzschia mg/L EC50	300: 96 h Lepomis macrochirus mg/L LC50 static 310 - 1220: 96 h Pimephales promelas mg/L LC50 static	265: 48 h Daphnia magna mg/L EC50
Sodium percarbonate 15630-89-4	70: 240 h Chlorella emersonii mg/L EC50	70.7: 96 h Pimephales promelas mg/L LC50 static	4.9: 48 h Daphnia pulex mg/L EC50
Sodium metasilicate 6834-92-0		210: 96 h Brachydanio rerio mg/L LC50 semi-static 210: 96 h Brachydanio rerio mg/L LC50	216: 96 h Daphnia magna mg/L EC50
Sodium Silicate 1344-09-8		3185: 96 h Brachydanio rerio mg/L LC50 semi-static 301 - 478: 96 h Lepomis macrochirus mg/L LC50	216: 96 h Daphnia magna mg/L EC50

# Persistence/Degradability

Not determined.

#### Bioaccumulation

There is no data for this product.

### **Mobility**

Not determined

# **Other Adverse Effects**

Not determined

# 13. DISPOSAL CONSIDERATIONS

### **Waste Treatment Methods**

**Disposal of Wastes**Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

### California Hazardous Waste Status

Chemical name	California Hazardous Waste Status
Sodium carbonate 497-19-8	Corrosive
Sodium percarbonate 15630-89-4	Ignitable

### 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

UN/ID No UN1759

Proper Shipping Name Corrosive solid, n.o.s. (sodium metasilicate)

Hazard class 8
Packing Group ||

<u>IATA</u>

UN1759

Proper Shipping Name Corrosive solid, n.o.s. (sodium metasilicate)

Transport hazard class(es) 8
Packing Group ||

**IMDG** 

UN number UN1759

**Proper Shipping Name** Corrosive solid, n.o.s. (sodium metasilicate)

Transport hazard class(es) 8
Packing Group ||

# 15. REGULATORY INFORMATION

# International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Sodium Tripolyphosphate Anhydrous	Х	X	X	Х	Х	Х	Х	Х
Sodium carbonate	Х	Х	Х	Х	Х	Х	Х	Χ
Sodium percarbonate	Х	Х	Х	Х	Х	Х	Х	Х
Sodium metasilicate	Х	Х	Х	Х	Х	Х	Х	Х
Ethoxylated Polyoxypropylene	Х	Х		Х	Х	Х	Х	Х
Tetrasodium EDTA		Х		Х	Х		Х	Х
Sodium Alkane Sulfonate	Х	Х	Х	Х	Х	Х	Х	Х
Sodium Silicate	Х	Х	Х	Х	Х	Х	Х	Х

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### **US Federal Regulations**

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

# **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

16. OTHER INFORMATION							
NFPA_	Health Hazards	Flammability	Instability	Special Hazards			
	1	0	1	-			
HMIS_	Health Hazards	Flammability	Physical hazards	Personal Protection			
	1	0	0	E			
Issue Date:	12-Nov-	-2018					

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### **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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. 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.

**End of Safety Data Sheet** 

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