Product number: 431009



# SAFETY DATA SHEET

#### 1. Identification

Product identifier BRULIN COPPER PROTECTOR

Other means of identification

Product number 431009

Recommended use Corrosion/Rust Inhibitor

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Brulin & Company, Inc.

Address P.O. Box 270

Indianapolis, IN 46206

**United States** 

Telephone Phone: 317-923-3211

Fax: 317-925-4596

Website www.Brulin.com

Emergency phone number CHEMTREC 1-800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Not classified

Acute toxicity, dermal

Skin corrosion/irritation

Serious eye damage/eye irritation

Not classified

Category 1B

Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Causes severe skin burns and eye damage.

**Prevention** Wear safety glasses with side shields (or goggles). Wear protective gloves. Do not breathe mist

or vapor. Wash hands thoroughly after handling.

**Response** 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/doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/doctor if you feel

unwell.

**Storage** Store locked up. Store away from incompatible materials. Keep out of the reach of children.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None known.

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# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	% by weight	
Sodium Tolytriazole	64665-57-2	25 - <30	
Sodium hydroxide	1310-73-2	0.1 - <1	

### 4. First-aid measures

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Notes to physician Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water

immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance, if not at hospital. Continue flushing during transport to hospital. Keep victim under

observation. Symptoms may be delayed.

Most important

symptoms/effects, acute and

delayed

Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and

blurred vision. Burning pain and severe corrosive skin damage.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

None known.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Do not breathe mist or vapor. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

#### 7. Handling and storage

**Precautions for safe handling**Wear appropriate personal protective equipment. Do not get this material in contact with eyes. Do not get this material on clothing. Do not breathe mist

or vapor. Avoid prolonged exposure. Provide adequate ventilation. Do not mix with other

chemicals. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.

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## 8. Exposure controls/personal protection

Occupational exposure limits

**US. ACGIH Threshold Limit Values** 

Value Components Type Sodium hydroxide (CAS 2 mg/m3 Ceiling 1310-73-2)

**Control parameters** 

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components Type Value PEL Sodium hydroxide (CAS 2 mg/m3 1310-73-2)

Appropriate engineering

controls

Use local exhaust ventilation. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Wear protective gloves. Hand protection

Respiratory protection Under normal conditions, respirator is not normally required.

Always observe good personal hygiene measures, such as washing after handling the material General hygiene

considerations and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** clear **Form** Liquid.

Color yellow to amber Odor characteristic pungent

Not available. **Odor threshold** 

pН 12.5

32 °F (0 °C) Melting point/freezing point 212 °F (100 °C) **Boiling point** Flash point None to boiling. Not available. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

(%)

Not available. Vapor pressure Not available. Vapor density

Solubility(ies)

100 % Solubility (water)

Not available. Partition coefficient

(n-octanol/water)

Specific gravity

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature** 

**Viscosity** Not available.

Material name: BRULIN COPPER PROTECTOR 5048 Version #: 01 Issue date: 06-10-2015

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VOC (Weight %) 0 %

10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

**Conditions to avoid**Contact with incompatible materials. Do not mix with other chemicals.

Incompatible materials Acids. Oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

# Toxicological data

Product Test Results

BRULIN COPPER PROTECTOR (Mixture) Acute Dermal LD50 Rabbit: > 5000 mg/kg

Acute Oral LD50 Rat: > 2000 mg/kg

### Information on likely routes of exposure

Eye contactCauses serious eye damage.Skin contactCauses severe skin burns.IngestionCauses digestive tract burns.

**Inhalation** May cause irritation to the respiratory system.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may

include stinging, tearing, redness, swelling, and blurred vision.

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

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

**Chronic effects** Prolonged inhalation may be harmful.

**Toxicological information** Occupational exposure to the substance or mixture may cause adverse effects.

# 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

**Persistence and degradability** No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not

contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

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# 14. Transport information

DOT

UN number UN1719

**UN proper shipping name** Caustic alkali liquids, n.o.s. (Sodium Tolytriazole)

Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8
Packing group ||

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions B2, IB2, T11, TP2, TP27

Packaging exceptions 154
Packaging non bulk 202
Packaging bulk 242

Sodium Tolytriazole

**IATA** 

UN number UN1719

**UN proper shipping name** Caustic alkali liquid, n.o.s. (Sodium Tolytriazole)

Allowed.

Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8
Packing group II
Environmental hazards No.
ERG Code 8L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Cargo aircraft only Allowed.

30 L A3

**IMDG** 

**UN number** UN1719

UN proper shipping name CAUSTIC ALKALI LIQUID, N.O.S. (Sodium Tolytriazole)

Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8
Packing group ||
Environmental hazards

Marine pollutant No.

EmS Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

DOT



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### IATA; IMDG



# 15. Regulatory information

**US** federal regulations

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

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Sodium hydroxide (CAS 1310-73-2)

Listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**CERCLA (Superfund) reportable quantity** 

Sodium hydroxide: 1000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

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

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

**US state regulations** 

**US. Massachusetts RTK - Substance List** 

Sodium hydroxide (CAS 1310-73-2)

**US. New Jersey Worker and Community Right-to-Know Act** 

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Sodium hydroxide (CAS 1310-73-2)

**US. Rhode Island RTK** 

Sodium hydroxide (CAS 1310-73-2)

**US. California Proposition 65** 

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

Toxic Substances Control Act (TSCA) Inventory

# 16. Other information, including date of preparation or last revision

06-10-2015 Issue date

Version # 01

The information in the sheet was written based on the best knowledge and experience currently Disclaimer

available. 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.

Material name: BRULIN COPPER PROTECTOR 5048 Version #: 01 Issue date: 06-10-2015

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).