#### **COPPER GRADE EZ BREAK®** LA-CO Industries, Inc.

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada Hazardous Products Regulations (HPR) / Règlement sur les produits dangereux (RPD)

SDS ID: LACO1510018

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## **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture

Trade name : COPPER GRADE EZ BREAK®

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Lubricant

Restrictions on use : Any use not specified

## 1.3. Supplier

**LA-CO Industries** 1201 Pratt Blvd.

Elk Grove Village, IL, 60007-5746

US

T 847-956-7600 - F 847-956-9885 customer service@laco.com

#### 1.4. Emergency telephone number

: 24-hour emergency: CHEMTREC- U.S.: 1-800-424-9300 International: +1-703-527-3887; **Emergency number** 

全国应急中心 0532 8388 9090

## **SECTION 2: Hazard(s) identification**

#### 2.1. Classification of the substance or mixture

#### **GHS** classification

Hazardous to the aquatic environment - Acute Hazard, Category 1 H400 Very toxic to aquatic life.

Hazardous to the aquatic environment - Chronic Hazard, Category 1 H410 Very toxic to aquatic life with long lasting effects.

Full text of H-statements: see section 16

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS** labelling

Hazard pictograms (GHS)



Signal word (GHS) : Warning

Hazard statements (GHS) : H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (GHS) : P273 - Avoid release to the environment.

P391 - Collect spillage.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

No data available

#### 2.4. Unknown acute toxicity (GHS)

15.74% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

15.74% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

15.74% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

### **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

Not applicable

## 3.2. Mixtures

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Name	Product identifier	% (w/w)	GHS classification
Copper, dusts and mists (as Cu)	CAS-No.: 7440-50-8	5 - 15	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Aluminum silicate	CAS-No.: 68476-25-5	1 - 5	Eye Irrit. 2A, H319 Carc. 1A, H350 STOT SE 3, H335
Silicon dioxide (cristobalite)	CAS-No.: 14808-60-7	1 - 5	Carc. 1A, H350
Alcohol ethoxylate phosphate ester, acid	CAS-No.: 39464-69-2	1 - 2	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	CAS-No.: 68649-42-3	0.1 - 2	Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412

<sup>\*</sup>Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : No special measures required.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Gently wash with plenty of soap and water.

First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water.

First-aid measures after ingestion : Get medical advice/attention if you feel unwell.

## 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Inhalation of vapours may cause respiratory irritation.

Symptoms/effects after eye contact : May cause slight irritation. Symptoms/effects after ingestion : Diarrhea. Nausea.

## 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## **SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None known.

## 5.2. Specific hazards arising from the chemical

Fire hazard : Burning produces irritating, toxic and noxious fumes.

Explosion hazard : Product is not explosive.

## 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Keep upwind.

Protection during firefighting : Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

## **SECTION 6: Accidental release measures**

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

General measures : Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

Protective equipment : Chemical goggles or safety glasses.
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Chemical goggles or safety glasses.

Emergency procedures : Stop leak if safe to do so. Ventilate area.

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#### 6.2. Environmental precautions

Do not discharge into drains or the environment. Prevent dispersion. Notify authorities if product enters sewers or public waters.

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

For containment : Do not allow minor leaks or spills to accumulate on walking surfaces.

Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable container.

#### 6.4. Reference to other sections

Section 7: Safe handling. Section 8: Personal protective equipment.

### **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

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

Storage conditions : Keep container closed when not in use.

Incompatible products : Oxidizer.

Heat and ignition sources : Keep away from heat, sparks and flame.

Prohibitions on mixed storage : Incompatible materials.

Storage area : Store in dry, cool, well-ventilated area.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

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COPPER GRADE EZ BREAK®		
No data available		
Copper, dusts and mists (as Cu) (7440-50-8)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Copper, as Cu	
ACGIH TWA (mg/m³)	0.2 mg/m³ (Fume) 1 mg/m³ (Dusts and mists)	
Remark (ACGIH)	TLV® Basis: Irr; GI; metal fume fever	
Regulatory reference	ACGIH 2021	
USA - OSHA - Occupational Exposure Limits		
Local name	Copper	
OSHA PEL TWA [1]	0.1 mg/m³ (Fume (as Cu)) 1 mg/m³ (Dusts and mists (as Cu))	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)		
No data available		
Alcohol ethoxylate phosphate ester, acid (39464-6	9-2)	
No data available		
Aluminum silicate (68476-25-5)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³)	1 mg/m³ (Respirable fraction)	
Silicon dioxide (cristobalite) (14808-60-7)		

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Silicon dioxide (cristobalite) (14808-60-7)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Silica crystaline - quartz	
ACGIH TWA (mg/m³)	0.025 mg/m³ (R - Respirable particulate matter)	
Remark (ACGIH)	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)	
Regulatory reference	ACGIH 2022	
USA - OSHA - Occupational Exposure Limits		
Local name	Quartz (Respirable) (Silica: Crystalline)	
OSHA PEL TWA [2]	250 mppcf	
Remark (OSHA)	Table Z-3. For OSHA PEL (TWA): Use formulas: (250 / (%SiO2+5)) for mppcf and (10 mg/m3 / (%SiO2+2)) for mg/m3. CAS No. source: eCFR Table Z-1.	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL TWA	0.05 mg/m³	
Remark (NIOSH)	(respirable dust)	

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Eyewash stations. Emergency safety showers

should be available in the immediate vicinity of any potential exposure.

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

Hand	protection:	
	•	

None under normal use.

## Eye protection:

Chemical goggles or safety glasses.

#### Respiratory protection:

None under normal use.

#### Personal protective equipment symbol(s):



#### Other information:

Do not eat, drink or smoke when using this product.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid Appearance : Paste

Colour : Copper Silver Gray

Odour : Oily

Odour threshold : No data available

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pH: No data availableMelting point: No data availableFreezing point: No data availableBoiling point: No data available

Flash point : 210 °C

Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C : No data available

Relative density : 1.3

Solubility No data available No data available Log Pow No data available Auto-ignition temperature Decomposition temperature No data available Viscosity, kinematic No data available Viscosity, dynamic No data available **Explosive limits** : No data available Explosive properties : No data available Oxidising properties : No data available

9.2. Other information

VOC content : 0 %

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reactions known.

## 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

None known.

## 10.5. Incompatible materials

Oxidizer.

### 10.6. Hazardous decomposition products

Burning produces irritating, toxic and noxious fumes. Carbon oxides (CO, CO2).

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

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Unknown acute toxicity (GHS_US)	15.74% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 15.74% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 15.74% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))	
Copper, dusts and mists (as Cu) (7440-50-8)		
LD50 Oral rat	> 2500 mg/kg	
LD50 Dermal rat	> 2000 mg/kg	
LC50 Inhalation rat	> 5.11 mg/l/4h	

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Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)		
LD50 Oral rat	26100 mg/kg	
ATE (oral)	26100 mg/kg bodyweight	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Aluminum silicate (68476-25-5)		
IARC group	1 - Carcinogenic to humans	
Silicon dioxide (cristobalite) (14808-60-7)		
IARC group	1 - Carcinogenic to humans	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
Aluminum silicate (68476-25-5)		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Viscosity, kinematic	: No data available	
Likely routes of exposure	: Skin and eye contact.	
Symptoms/effects after inhalation	: Inhalation of vapours may cause respiratory irritation.	
Symptoms/effects after eye contact	: May cause slight irritation.	
Symptoms/effects after ingestion	: Diarrhea. Nausea.	
Other information	: No data available	

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Copper, dusts and mists (as Cu) (7440-50-8)		
LC50 fish 1	0.2 mg/l	
EC50 crustacea	0.041 mg/l	
NOEC chronic fish	0.01 mg/l	
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)		
LC50 fish 1	10 (10 – 35) mg/l Pimephales promelas OECD GDL 203 (water accomodated fraction)	
EC50 crustacea	1 (1 – 1.5) mg/l OECD GDL 202 (water accomodated fraction)	
NOEC (acute)	10 mg/l Pimephales promelas OECD GDL 203 (water accomodated fraction)	
NOEC chronic crustacea	< 1 mg/l	

## 12.2. Persistence and degradability

COPPER GRADE EZ BREAK®		
Persistence and degradability  May cause long-term adverse effects in the environment.		
Copper, dusts and mists (as Cu) (7440-50-8)		
Copper, dusts and mists (as Cu) (7440-50-8)		

## 12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.	
Copper, dusts and mists (as Cu) (7440-50-8)		
BCF fish 1	0.009	
Bioaccumulative potential	Not expected to bioaccumulate.	

#### 12.4. Mobility in soil

COPPER GRADE EZ BREAK®	
Ecology - soil	Not established.

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

## **SECTION 14: Transport information**

#### 14.1. UN number

DOT NA NO : UN3082 UN-No. (TDG) : UN 3082 UN-No. (IMDG) : 3082 UN-No. (IATA) : 3082

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (copper)
Proper Shipping Name (TDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (copper)
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (copper)
Proper Shipping Name (IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (copper)

### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : 9
Hazard labels (DOT) : 9



#### **TDG**

Transport hazard class(es) (TDG) : 9

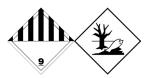


## IMDG

Transport hazard class(es) (IMDG) : 9
Danger labels (IMDG) : 9

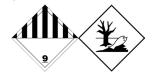
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#### IATA

Transport hazard class(es) (IATA) : 9
Danger labels (IATA) : 9



## 14.4. Packing group

Packing group (DOT) : III
Packing group (TDG) : III
Packing group (IMDG) : III
Packing group (IATA) : III

#### 14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes



Other information : No supplementary information available.

## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

aluminium powder (pyrophoric)	CAS-No. 7429-90-5	0.5 - 1.5%
Copper, dusts and mists (as Cu)	CAS-No. 7440-50-8	5 - 15%

#### Copper, dusts and mists (as Cu) (7440-50-8)

CERCLA RQ	5000 lb

#### 15.2. International regulations

## **COPPER GRADE EZ BREAK®**

All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

## Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

## Alcohol ethoxylate phosphate ester, acid (39464-69-2)

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#### Alcohol ethoxylate phosphate ester, acid (39464-69-2)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

#### Aluminum silicate (68476-25-5)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### Silicon dioxide (cristobalite) (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on Taiwan National Chemical Inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 15.3. US State regulations

COPPER GRADE EZ BREAK®	
State or local regulations	This product is not expected to produce Silicon dioxide particles of respirable size.  California Prop. 65 warnings are not required.

### **SECTION 16: Other information**

Revision date : 09/26/2022

Data sources : ACGIH (American Conference of Government Industrial Hygienists). European Chemicals

Agency (ECHA) C&L Inventory database. Accessed at

http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance

Inventory. Accessed at

http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.

Other information : None

Full text of H-statements	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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Full text of H-statements	
H412	Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms	
	ACGIH (American Conference of Government Industrial Hygienists)
	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	DNEL: Derived No Effect Level
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	NOEC: No Observable Effect Concentration
	OSHA: Occupational Safety & Health Administration
	PBT: Persistent, Bioaccumulative, Toxic
	PNEC: Predicted No Effect Level
	STEL: Short Term Exposure Limits
	TSCA: Toxic Substances Control Act
	TWA: Time Weighted Average

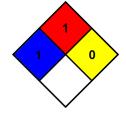
NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant

irritation.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

: 0 - Material that in themselves are normally stable, even under fire

conditions.



#### Indication of changes:

### General information.

NFPA reactivity

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.