Date : 09/01/2012

Version: 1.1

# **Material Safety Data Sheet**

E-Z Break Aerosol Anti-Seize, Copper Grade

# 1. Product and company identification

Product name : E-Z Break Aerosol Anti-Seize, Copper Grade

Material uses : Not available.

Supplier/Manufacturer : LA-CO Industries, Inc.

1201 Pratt Boulevard Elk Grove Village, IL. 60007-5746

MSDS authored by : KMK Regulatory Services Inc.

In case of emergency : CHEMTREC, U.S.: 1-800-424-9300 International: +1-703-527-3887

## 2. Hazards identification

### **Emergency overview**

Physical state : Liquid. [Aerosol.]

Color : Copper to silver/gray.

Odor : Oil-like.
Signal word : WARNING!

Hazard statements : EXTREMELY FLAMMABLE AEROSOL. CONTENTS UNDER PRESSURE. MAY

CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

Precautionary measures : Avoid breathing vapor or mist. Use only with adequate ventilation. Avoid contact with

eyes, skin and clothing. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Keep container tightly closed. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect

from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Wash

thoroughly after handling.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Routes of entry : Dermal contact. Eye contact. Inhalation.

Potential acute health effects

Inhalation : Slightly irritating to the respiratory system.

**Ingestion**: No known significant effects or critical hazards.

Skin : Slightly irritating to the skin.

Eyes : Slightly irritating to the eyes.

## Potential chronic health effects

Chronic effects
 Carcinogenicity
 Mo known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Ingestion**: No known significant effects or critical hazards.

## E-Z Break Aerosol Anti-Seize, Copper Grade

## 2. Hazards identification

Skin : Adverse symptoms may include the following:

> irritation redness

Eyes : Adverse symptoms may include the following:

> pain or irritation watering

redness

Medical conditions aggravated by overexposure : None known.

See toxicological information (Section 11)

# 3. Composition/information on ingredients

### **United States**

Name	CAS number	%
Naphtha (petroleum), hydrotreated light	64742-49-0	10 - 30
Propane	74-98-6	10 - 30
Copper	7440-50-8	5 - 10
Butane	106-97-8	5 - 10
Aluminum	7429-90-5	1 - 5

#### Canada

Name	CAS number	%
Naphtha (petroleum), hydrotreated light Propane	64742-49-0 74-98-6	10 - 30 10 - 30
Copper 3utane	7440-50-8	5 - 10
Aluminum	106-97-8 7429-90-5	5 - 10 1 - 5

### **Mexico**

						C	lassifi	cation
Name	CAS number	UN number	%	IDLH	Н	F	R	Special
Naphtha (petroleum), hydrotreated light	64742-49-0	UN1268	10 - 30	-	1	3	0	-
Propane Butane	74-98-6 106-97-8	UN1978 UN1011	10 - 30 5 - 10	2100 ppm	1	4	0	-
Aluminum Copper	7429-90-5 7440-50-8	UN1309 UN3077	1 - 5 5 - 10	- 100 mg/m³	1 0	2	0	-

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water

for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical

attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 20 minutes

while removing contaminated clothing and shoes. Get medical attention immediately.

: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Get medical attention immediately.

: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical

attention immediately.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Inhalation

ngestion

## E-Z Break Aerosol Anti-Seize, Copper Grade

# 1. First aid measures

Notes to physician

: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

# 5. Fire-fighting measures

Flammability of the product : Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.

### **Extinguishing media**

Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: None known.

Special exposure hazards

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Hazardous thermal decomposition products Decomposition products may include the following materials: carbon dioxide

carbon monoxide metal oxide/oxides

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## **%. Accidental release measures**

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods for cleaning up

Spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosionproof equipment. Dispose via a licensed waste disposal contractor.

# 7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Empty containers retain product residue and can

### E-Z Break Aerosol Anti-Seize, Copper Grade

# 7. Handling and storage

be hazardous.

### **Storage**

: Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

# 8. Exposure controls/personal protection

### **United States**

Ingredient	Exposure limits
Propane	ACGIH TLV (United States, 1/2011).  TWA: 1000 ppm 8 hour(s).  NIOSH REL (United States, 6/2009).  TWA: 1800 mg/m³ 10 hour(s).  TWA: 1000 ppm 10 hour(s).  OSHA PEL (United States, 6/2010).  TWA: 1800 mg/m³ 8 hour(s).  TWA: 1000 ppm 8 hour(s).
Copper	NIOSH REL (United States, 6/2009).  TWA: 1 mg/m³ 10 hour(s). Form: Dusts and mists  OSHA PEL (United States, 6/2010).  TWA: 1 mg/m³ 8 hour(s). Form: Dusts and mists  TWA: 0.1 mg/m³ 8 hour(s). Form: Fume  ACGIH TLV (United States, 1/2011).  TWA: 0.2 mg/m³ 8 hour(s). Form: Fume  TWA: 1 mg/m³, (Cu) 8 hour(s).
Butane	ACGIH TLV (United States, 1/2011).  TWA: 1000 ppm 8 hour(s).  NIOSH REL (United States, 6/2009).  TWA: 1900 mg/m³ 10 hour(s).  TWA: 800 ppm 10 hour(s).  OSHA PEL 1989 (United States, 3/1989).  TWA: 800 ppm 8 hour(s).  TWA: 1900 mg/m³ 8 hour(s).
Aluminum	NIOSH REL (United States, 6/2009).  TWA: 5 mg/m³ 10 hour(s). Form: Respirable fraction  TWA: 10 mg/m³ 10 hour(s). Form: Total  OSHA PEL (United States, 6/2010).  TWA: 5 mg/m³, (Al) 8 hour(s). Form: Respirable fraction  TWA: 15 mg/m³, (Al) 8 hour(s). Form: Total dust  ACGIH TLV (United States, 1/2011).  TWA: 1 mg/m³ 8 hour(s). Form: Respirable fraction

### Canada

Occupational exposure limits		TWA	TWA (8 hours)		STEL (15 mins)		Ceiling				
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
Propane	US ACGIH 1/2011	1000	-	-	-	-	-	-	-		
	AB 4/2009	1000	-	-		-	-	-	-	-	
	BC 9/2011	1000	-	-	-	-	-	-	-		
	ON 7/2010	1000	-	-	-	-	-	-	-	-	
	QC 9/2011	1000	1800	-	-	-	-	-	-	-	1
Copper	US ACGIH 1/2011	-	0.2	-	-	-	-	-	=	-	[a]
		-	1	-	-	-	-	-	-	-	
Copper, Cu	AB 4/2009	-	1	-	-	-	-	-	2		[b]
		-	0.2	-	-	-	-	-	-	ŀ	[a]
	BC 9/2011	-	1	-:	-	-	-	-	-	}	[a] [b] [a] [b] [a] [b]
		-	0.2	-	-	-	-	-	-	}	[a]
Copper	ON 7/2010	-	1	-	-	-	-	-	-	}	[b]
		-	0.2	-	-	-	-	-	-	-	[a]
Copper, Cu	QC 9/2011	-	1	-	-	-	-	-	-	-	[b]
		-	0.2	-	-	-	-	-	-	-	[a]
Butane	US ACGIH 1/2011	1000	-	-	-	-	-	-	-	-	
	AB 4/2009	1000	-	-	-	-	-	-	-	-	
	BC 9/2011	600		-	750	-	-	-	-	-	
	ON 7/2010	800	-	-	-	-	-	-	-	-	
	QC 9/2011	800	1900	-	-	-	-	_	-		

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# 3. Exposure controls/personal protection

-  -	[3] [d]
-  -	[e]
	[c]
	-

[3]Skin sensitization

Form: [a]Fume [b]Dusts and mists [c]Respirable fraction [d]Metal dust [e]Respirable.

#### Mexico

### Occupational exposure limits

Ingredient	Exposure limits
Propane	ACGIH TLV (United States, 1/2011).
	TWA: 1000 ppm 8 hour(s).
Copper	NOM-010-STPS (Mexico, 9/2000).
	LMPE-CT: 2 mg/m³, (Cu) 15 minute(s). Form: powder and fog
	LMPE-PPT: 1 mg/m³, (as Cu) 8 hour(s). Form: powder and fog
	LMPE-CT: 2 mg/m³, (Cu) 15 minute(s). Form: smoke
	LMPE-PPT: 0.2 mg/m³, (Cu) 8 hour(s). Form: smoke
Butane	NOM-010-STPS (Mexico, 9/2000).
	LMPE-PPT: 1900 mg/m³ 8 hour(s).
	LMPE-PPT: 800 ppm 8 hour(s).
Aluminum	NOM-010-STPS (Mexico, 9/2000).
	LMPE-PPT: 5 mg/m³ 8 hour(s). Form: Powder.
	LMPE-PPT: 5 mg/m³ 8 hour(s).

Consult local authorities for acceptable exposure limits.

# Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

### ingineering measures

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

### Respiratory

: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

## Eyes

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

## Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

# Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### E-Z Break Aerosol Anti-Seize, Copper Grade

# ). Physical and chemical properties

Physical state : Liquid. [Aerosol.]

Flash point : Closed cup: <-18°C (<-0.4°F) [Pensky-Martens.]

Burning time: Not applicable.Burning rate: Not applicable.Auto-ignition temperature: Not available.Flammable limits: Not available.

Color : Copper to silver/gray.

Odor : Oil-like.

Taste : Not available.

Molecular weight : Not applicable.

Molecular formula : Not applicable.

pH : Not applicable.

Boiling/condensation point : Not available.

Melting/freezing point : Not available.

Critical temperature : Not available.

Relative density : 0.855

**Vapor pressure** : 344.7 kPa (2585.5 mm Hg) [20°C]

Vapor density : Not available. Volatility : 44% (w/w) : Not available. Odor threshold : Not available. vaporation rate SADT : Not available. : Not available. Viscosity : Not available. Ionicity (in water) Dispersibility properties : Not available.

**Solubility**: Insoluble in the following materials: cold water and hot water.

Physical/chemical properties comments

: Not available.

Aerosol product

Type of aerosol : Spray

## 10. Stability and reactivity

Chemical stability: The product is stable.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame).

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials, acids and

alkalis.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

## E-Z Break Aerosol Anti-Seize, Copper Grade

# 11. Toxicological information

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m3	4 hours

## **Chronic toxicity**

There is no data available.

### Irritation/Corrosion

Skin

: There is no data available.

Eyes

: There is no data available.

Respiratory

: There is no data available.

**Sensitizer** 

Skin

: There is no data available.

Respiratory

: There is no data available.

## Carcinogenicity

## Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Aluminum	A4	-	N=	-	-	-

## Mutagenicity

There is no data available.

### **Teratogenicity**

There is no data available.

### Reproductive toxicity

There is no data available.

# 12. Ecological information

## **Ecotoxicity**

: No known significant effects or critical hazards.

## **Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Propane	LC50 >1000 mg/l	Fish	96 hours
Copper	Acute EC50 1100 ug/L Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 2.1 ug/L Fresh water	Daphnia - Daphnia longispina - Juvenile (Fledgling, Hatchling, Weanling) - <48 hours	48 hours
	Acute IC50 13 ug/L Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute IC50 5.4 mg/L Marine water	Aquatic plants - Plantae - Exponential growth phase	72 hours
	Acute LC50 0.072 ug/L Marine water	Crustaceans - Amphipoda - Adult - 9 mm	48 hours
	Acute LC50 7.56 ug/L Marine water	Fish - Periophthalmus waltoni - Adult	96 hours
	Chronic NOEC 0.02 mg/L Fresh water	Crustaceans - Cambarus bartonii - Mature - 22.6 mm	21 days
	Chronic NOEC 2 ug/L Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.8 ug/L Fresh water	Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling) - 8.3 g	6 weeks
Aluminum	Acute LC50 120 ug/L Fresh water	Fish - Oncorhynchus mykiss - Embryo	96 hours

## Persistence/degradability

There is no data available.



## E-Z Break Aerosol Anti-Seize, Copper Grade

## 13. Disposal considerations

## Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1950	Aerosols, flammable	2.1	-	RAYMOLE CAS	-
TDG Classification	UN1950	Aerosols, flammable	2.1	-	<b>(b)</b>	-
Mexico Classification	UN1950	Aerosols, flammable	2.1	-	**	-
IMDG Class	UN1950	Aerosols, flammable. Marine pollutant (Copper)	2.1	-	<b>1 1 2 2 2 2 3 3 3 4 3 3 4 3 3 3 4 3 3 4</b>	-
IATA-DGR Class	UN1950	Aerosols, flammable	2.1	-	¥22	-

PG\* : Packing group

Exemption to the above classification may apply.

DOT/TDG/MXT/IMDG/IATA

: Not regulated.

**AERG** : 126

## E-Z Break Aerosol Anti-Seize, Copper Grade

## 15. Regulatory information

### **United States**

**HCS Classification** 

: Flammable aerosol

U.S. Federal regulations

: TSCA 8(a) IUR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: Propane; Copper; Butane; Aluminum SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Propane: Fire hazard, Sudden release of pressure; Copper: Immediate (acute) health hazard: Butane: Fire hazard, Sudden release of pressure; Aluminum: Fire hazard,

reactive

Clean Water Act (CWA) 307: Copper; Benzene; Ethylbenzene

Clean Air Act (CAA) 112 regulated flammable substances: Propane; Butane

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)

: Listed

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602 : Not listed

Class II Substances

**DEA List I Chemicals** (Precursor Chemicals)

: Not listed

**DEA List II Chemicals** (Essential Chemicals) : Not listed

### **SARA 313**

	Product name	CAS number	Concentration	
Form R - Reporting requirements	Copper	7440-50-8	5 - 10	
	Aluminum	7429-90-5	1 - 5	
Supplier notification	Copper	7440-50-8	5 - 10	
	Aluminum	7429-90-5	1 - 5	

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

### State regulations

Massachusetts

: The following components are listed: Propane; Copper; Butane; Aluminum

**New York** 

: The following components are listed: Copper

**New Jersey** 

: The following components are listed: Propane; Copper; Butane; Aluminum

Pennsylvania

: The following components are listed: Propane; Copper; Butane; Aluminum

### California Prop. 65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer. WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Benzene	Yes.	Yes.	6.4 μg/day (ingestion) 13 μg/day (inhalation)	24 μg/day (ingestion) 49 μg/day (inhalation)
Ethylbenzene	Yes.	No.	41 µg/day (ingestion) 54 µg/day (inhalation)	No.

### Canada

### E-Z Break Aerosol Anti-Seize, Copper Grade

# 15. Regulatory information

WHMIS (Canada) : Class A: Compressed gas.

Class B-5: Flammable aerosol.

**Canadian lists** 

Canadian NPRI : The following components are listed: Propane; Heptane; Copper; Butane; Aluminum

CEPA Toxic substances : None of the components are listed.Canada inventory : All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### **Mexico**

Classification



## 16. Other information

Label requirements : EXTREMELY FLAMMABLE AEROSOL. CONTENTS UNDER PRESSURE. MAY

CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

Hazardous Material : Health : 1 Flammability : 4 Physical hazards : 0

Information System (U.S.A.)

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection : Health: 1 Flammability: 4 Instability: 0

Association (U.S.A.)

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### History

Date of issue mm/dd/yyyy : 09/01/2012 Date of previous issue : 08/01/2012

Version : 1.1

Revised Section(s) : 2, 3, 4, 8, 11, 12, 14, 15, 16

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.