

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 08/09/2017 Version: 5.0

# **SECTION 1: Identification**

Identification

Product form : Mixture

Trade name 35AU/62CU/3NI VTG

Product code A00000290

### Recommended use and restrictions on use

No additional information available

#### **Supplier**

Lucas-Milhaupt, Inc. 5656 South Pennsylvania Ave. Cudahy, WI 53110 - USA T (414)-769-6000

LM\_SDSinfo@lucasmilhaupt.com - www.Lucasmilhaupt.com

#### **Emergency telephone number**

Emergency number : CHEMTREC within the USA and Canada: 1-800-424-9300

CHEMTREC outside the USA and Canada +1 701-741-5970

# SECTION 2: Hazard(s) identification

### Classification of the substance or mixture

#### **GHS-US** classification

Skin sensitisation, Category H317 May cause an allergic skin reaction.

Carcinogenicity, Category H350 May cause cancer.

Specific target organ H372 Causes damage to organs through prolonged or repeated exposure.

toxicity — Repeated exposure, Category 1

Full text of H statements : see section 16

### GHS Label elements, including precautionary statements

### **GHS-US** labelling

Hazard pictograms (GHS-US)





Signal word (GHS-US) : Danger

H317 - May cause an allergic skin reaction. Hazard statements (GHS-US)

H350 - May cause cancer.

H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS-US) P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product.

P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - If on skin: Wash with plenty of water

P308+P313 - If exposed or concerned: Get medical advice/attention.

P314 - Get medical advice/attention if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label) P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

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

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

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

No additional information available

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

Not applicable

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

#### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%
Copper	(CAS-No.) 7440-50-8	61.25 - 62.75
Gold	(CAS-No.) 7440-57-5	34.5 - 35.5
Nickel	(CAS-No.) 7440-02-0	2.75 - 3.25

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 : IF exposed or concerned: Get medical advice/attention.

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

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs:

Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact : May cause an allergic skin reaction.

### 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 : Dry powder. Water spray. Foam.

Unsuitable extinguishing media : Water.

### 5.2. Specific hazards arising from the chemical

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

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

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

# **SECTION 6: Accidental release measures**

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

### 6.1.1. For non-emergency personnel

Emergency procedures : Do not breathe dust/fume/gas/mist/vapours/spray. Only qualified personnel equipped with

suitable protective equipment may intervene.

# 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

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### 6.4. Reference to other sections

For further information refer to section 13.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly.

Hygiene measures

Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Separate working clothes from town clothes. Launder separately.

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

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

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

#### 8.1. Control parameters

Gold (7440-57-5)				
Not applicable				
Copper (7440-50-8)				
ACGIH	ACGIH TWA (mg/m³)	0.2 mg/m³ (fume)		
OSHA	OSHA PEL (TWA) (mg/m³)	0.1 mg/m³ (fume) 1 mg/m³ (dust and mist)		
IDLH	US IDLH (mg/m³)	100 mg/m³ (dust, fume and mist)		
NIOSH	NIOSH REL (TWA) (mg/m³)	1 mg/m³ (dust and mist) 0.1 mg/m³ (fume)		
Nickel (7440-02-0)				
ACGIH	ACGIH TWA (mg/m³)	1.5 mg/m³ (inhalable particulate matter)		
OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m³		
IDLH	US IDLH (mg/m³)	10 mg/m³		
NIOSH	NIOSH REL (TWA) (mg/m³)	0.015 mg/m³		

# 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

# 8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

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### SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Physical state : Solid

Colour : No data available : No data available Odour Odour threshold : No data available pΗ No data available : No data available Melting point Freezing point : Not applicable : No data available Boiling point Flash point : Not applicable Relative evaporation rate (butylacetate=1) : No data available : Non flammable. Flammability (solid, gas) Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : Not applicable Solubility : No data available Log Pow : No data available : Not applicable Auto-ignition temperature Decomposition temperature : No data available

### Other information

No additional information available

### SECTION 10: Stability and reactivity

# Reactivity

Viscosity, kinematic

Viscosity, dynamic

Explosive properties Oxidising properties

**Explosive limits** 

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

## **Chemical stability**

Stable under normal conditions.

# Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

# **Conditions to avoid**

None under recommended storage and handling conditions (see section 7).

# Incompatible materials

No additional information available

#### 10.6. **Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

: No data available

: No data available

: No data available

: Not applicable : No data available

# **SECTION 11: Toxicological information**

#### Information on toxicological effects 11.1.

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

Nickel (7440-02-0)	
LD50 oral rat	> 9000 mg/kg
LC50 inhalation rat (mg/l)	> 10.2 mg/l (Exposure time: 1 h)

Skin corrosion/irritation : Not classified

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Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : May cause cancer.

Nickel (7440-02-0)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicity Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
In OSHA Hazard Communication Carcinogen	Yes
list	

Reproductive toxicity : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

Nickel (7440-02-0)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified

Viscosity, kinematic : No data available

Symptoms/effects after skin contact : May cause an allergic skin reaction.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment. Very toxic to aquatic life.

Copper (7440-50-8)	
LC50 fish 1	0.0068 - 0.0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	< 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
Nickel (7440-02-0)	
LC50 fish 1	> 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
EC50 Daphnia 1	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	1.3 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
EC50 Daphnia 2	1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

## 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

No additional information available

# 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

# 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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# **SECTION 14: Transport information**

# **Department of Transportation (DOT)**

In accordance with DOT

Not applicable

**Transportation of Dangerous Goods** 

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

# **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

Gold (7440-57-5)		
Listed on the United States TSCA (Toxic Substan	ces Control Act) inventory	
Copper (7440-50-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313		
CERCLA RQ 5000 lb no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 μm		
Nickel (7440-02-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313		
CERCLA RQ 100 lb no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm		

# 15.2. International regulations

Gold (7440-57-5)	
Listed on the TCSI (Taiwan Chemical Substance Inventory)	
Copper (7440-50-8)	
Listed on the TCSI (Taiwan Chemical Substance Inventory)	
Nickel (7440-02-0)	
Listed on the TCSI (Taiwan Chemical Substance Inventory)	

# 15.3. US State regulations

MARNING:

This product can expose you to Nickel, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Nickel(7440-02-0)	X					

Component	State or local regulations
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Component	State or local regulations
Copper(7440-50-8)	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) List
Nickel(7440-02-0)	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) - Special Hazardous Substances U.S Pennsylvania - RTK (Right to Know) List

# **SECTION 16: Other information**

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### Full text of H-statements:

H317	May cause an allergic skin reaction.	
H350	May cause cancer.	
H372	Causes damage to organs through prolonged or repeated exposure.	

# SDS US (GHS HazCom 2012)

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