

# SAFETY DATA SHEET

## COPPER ANTI-SEIZE COMPOUND WITH PTFE

Infosafe No.: LPY7M  
ISSUED Date : 28/03/2023  
ISSUED by: Unasco Pty Ltd

### Section 1 - Identification

#### Product Identifier

COPPER ANTI-SEIZE COMPOUND WITH PTFE

#### Product Code

CT0045, CT0040, CH004

#### Company Name

Unasco Pty Ltd

#### Address

1 Amax Ave Girraween  
NSW 2145 AUSTRALIA

#### Telephone/Fax Number

Tel: (02) 9636 1200  
Fax: (02) 9688 4831

#### Emergency Phone Number

(02) 9636 1200 (8-5pm weekdays)

#### Recommended use of the chemical and restrictions on use

Anti-seize compound for threaded components.

### Section 2 - Hazard(s) Identification

#### GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Acute toxicity: Category 4 - Inhalation

Eye damage/irritation: Category 2

Hazardous to the Aquatic Environment - Acute Hazard: Category 2

Hazardous to the Aquatic Environment - Long-Term Hazard: Category 2

#### Signal Word (s)

WARNING

#### Hazard Statement (s)

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

#### Pictogram (s)

Exclamation mark, Environment



#### Precautionary Statement – Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear eye protection/face protection.

#### Precautionary Statement – Response

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P391 Collect spillage.

#### Precautionary Statement – Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

### Section 3 - Composition and Information on Ingredients

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#### Ingredients

Name	CAS	Proportion
Poly(ethylene tetrafluoride)	9002-84-0	0-100 %
Bentone Thickener	1340-68-7	0-100 %
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	0-100 %
copper flakes (coated with aliphatic acid)		0-20 %

### Section 4 - First Aid Measures

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#### Inhalation

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

#### Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

#### Skin

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

#### Eye

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

#### First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

#### Advice to Doctor

Treat symptomatically.

#### Other Information

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

### Section 5 - Firefighting Measures

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#### Suitable Extinguishing Media

Use dry chemical, foam, water spray or carbon dioxide.

#### Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon dioxide, carbon monoxide, oxides of nitrogen and hydrogen fluoride.

#### Specific hazards arising from the chemical

Combustible. This product will burn if exposed to fire.

**Hazchem Code**

•3Z

**Decomposition Temperature**

Not available

**Precautions in connection with Fire**

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

## Section 6 - Accidental Release Measures

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**Emergency Procedures**

Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

## Section 7 - Handling and Storage

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**Precautions for Safe Handling**

Avoid inhalation of vapours, dusts and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists/dusts or vapours in the work atmosphere. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Maintain high standards of personal hygiene by washing hands prior to eating, drinking, smoking or using toilet facilities.

**Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations.

For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids.

## Section 8 - Exposure Controls and Personal Protection

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**Occupational exposure limit values**

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

Copper (as Cu)

TWA: 0.2 mg/m<sup>3</sup> (fume)

TWA: 1 (dusts/mists)

Hydrogen fluoride

TWA: 3 ppm (Peak limitation), 2.6 mg/m<sup>3</sup>(Peak limitation)

Oil mist, mineral:

TWA: 5 mg/m<sup>3</sup>

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

Peak Limitation: A ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes.

Source: Safe Work Australia

#### Biological Monitoring

No biological limits allocated.

#### Control Banding

Not available

#### Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours/mists/dust away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists/dust below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements.

#### Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist/dust filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

#### Eye and Face Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.

#### Hand Protection

Wear gloves of impervious material such as laminate film. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

#### Thermal Hazards

No further relevant information available.

#### Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

## Section 9 - Physical and Chemical Properties

Properties	Description	Properties	Description
Form	Paste	Appearance	Paste
Colour	Copper	Odour	Grease-like
Melting Point	Not available	Boiling Point	Not available
Decomposition Temperature	Not available	Solubility in Water	Insoluble
Specific Gravity	1.5 (25°C)	pH	Not available
Vapour Pressure	Not available	Relative Vapour Density (Air=1)	Not available
Evaporation Rate	Not available	Odour Threshold	Not available
Viscosity	Not available	Partition Coefficient: n-octanol/water (log value)	Not available
Flash Point	>225°C (Open Cup)	Flammability	Not flammable
Auto-Ignition Temperature	Not available	Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available	Explosion Properties	Not explosive
Kinematic Viscosity	1200 cP (25°C)		

## Section 10 - Stability and Reactivity

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### Chemical Stability

Stable under normal conditions of storage and handling.

### Possibility of hazardous reactions

Reacts with incompatible materials.

### Conditions to Avoid

Heat, open flames and other sources of ignition. Avoid temperatures above 260°C without adequate ventilation.

### Incompatible Materials

Strong oxidizing agents. Reducing agents, perchlorates, strong mineral acids and phosphorus materials.

### Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes including: carbon dioxide, carbon monoxide, oxides of nitrogen and hydrogen fluoride.

### Reactivity and Stability

Reacts with incompatible materials.

### Hazardous Polymerization

Will not occur.

## Section 11 - Toxicological Information

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### Toxicology Information

No toxicity data available for this material.

### Ingestion

Ingestion of this product may irritate the gastric tract causing nausea and vomiting. However, if inhaled at temperatures above 260°C, influenza-like symptoms may occur. Symptoms may appear several hours after exposure but will disappear within 24-48 hours.

### Inhalation

Harmful if inhaled. Inhalation of product dust/vapours can cause irritation of the nose, throat and respiratory system.

### Skin

May be irritating to skin. The symptoms may include redness, itching and swelling.

### Eye

Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

### Respiratory Sensitisation

Not expected to be a respiratory sensitizer.

### Skin Sensitisation

Not expected to be a skin sensitizer.

### Germ Cell Mutagenicity

Not considered to be a mutagenic hazard.

### Carcinogenicity

Not considered to be a carcinogenic hazard.

Polytetrafluoroethylene is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).

### Reproductive Toxicity

Not considered to be toxic to reproduction.

### STOT - Single Exposure

Not expected to cause toxicity to a specific target organ.

### STOT - Repeated Exposure

Not expected to cause toxicity to a specific target organ.

**Aspiration Hazard**

Not expected to be an aspiration hazard.

**Section 12 - Ecological Information**

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**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

**Persistence and degradability**

Not available

**Mobility**

Not available

**Bioaccumulative Potential**

Not available

**Other Adverse Effects**

Not available

**Environmental Protection**

Do not discharge this material into waterways, drains and sewers.

**Hazardous to the Ozone Layer**

This product is not expected to deplete the ozone layer.

**Section 13 - Disposal Considerations**

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**Disposal Considerations**

Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. To minimise personal exposure, refer to Section 8 - Exposure Controls and Personal Protection.

**Section 14 - Transport Information**

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**Transport Information**

This material is classified as Dangerous Goods Class 9 Miscellaneous Dangerous Goods

Class 9: Miscellaneous substances Dangerous Goods are incompatible in a placard load with any of the following:

Class 1: Explosives (when the class 9 substance is a fire risk substance) Division 5.1: Oxidising substances (when the class 9 substance is a fire risk substance) and

Division 5.2: Organic peroxides (when the class 9 substance is a fire risk substance)

Note: Special Provision AU01:

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in:

packagings that do not incorporate a receptacle exceeding 500 kg(L); or

IBCs

Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Class/Division: 9

UN No: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Copper flakes (coated with aliphatic acid)) (MARINE POLLUTANT)

Packing Group: III

EMS: F-A, S-F

Special Provisions: 274 335 969

Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Class/Division: 9

UN No: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Copper flakes (coated with aliphatic acid))

Packing Group: III

Packaging Instructions (passenger & cargo): 964

Packaging Instructions (cargo only): 964

Hazard Label: Miscellaneous

Special Provisions: A97, A158, A197

**ADG U.N. Number**

3082

**ADG Proper Shipping Name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Contains Copper flakes (coated with aliphatic acid))

**ADG Transport Hazard Class**

9

**ADG Packing Group**

III

**Hazchem Code**

•3Z

**IERG Number**

47

**Special Precautions for User**

Not available

**IMDG Marine pollutant**

Yes

**Transport in Bulk**

Not available

## Section 15 - Regulatory Information

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**Regulatory Information**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Poisons Schedule**

Not Scheduled

**Montreal Protocol**

Not listed

**Stockholm Convention**

Not listed

**Rotterdam Convention**

Not listed

**International Convention for the Prevention of Pollution from Ships (MARPOL)**

Not available

**Agricultural and Veterinary Chemicals Act 1994**

Not available

**Basel Convention**

Not available

## Section 16 - Any Other Relevant Information

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### Date of Preparation

SDS Reviewed: March 2023

Supersedes: June 2019

### Version Number

3.0

### Literature References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Code of Practice for Supply Diversion into Illicit Drug Manufacture.

National Code of Practice for Chemicals of Security Concern.

Agricultural Compounds and Veterinary Chemicals Act.

International Agency for Research on Cancer (IARC) Monographs.

Montreal Protocol on Substances that Deplete the Ozone Layer.

Stockholm Convention on Persistent Organic Pollutants (POPs).

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.

Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal.

International Air Transport Association (IATA) Dangerous Goods Regulations.

International Maritime Dangerous Goods (IMDG) Code.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of Classification and Labelling of Chemicals.

Code of Practice: Managing Noise and Preventing Hearing Loss at Work.

### User Codes

User Title Label	User Codes
Task #	5590

## END OF SDS

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