

SAFETY DATA SHEET

COPPER ANTI-SEIZE TAPE

Date: SEPTEMBER 2015
ISSUED BY UNASCO PTY
LTD

1. IDENTIFICATION

GHS Product Identifier
COPPER ANTI-SEIZE TAPE

Company Name
UNASCO PTY LTD

Address
1 Amax Avenue Girraween
N.S.W. 2145 Australia

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Tel: 800 713 4589
Fax: 707 238 1419

Emergency Telephone Number:
Unasco Pty Ltd CCN710993
CHEMTREC (USA & Canada) 800 424 9000
International: 703 741 5970

Recommended use of the chemical and restrictions on use
Anti-seize on threaded components.

GHS classification of the substance/mixture
Not classified as Hazardous according to the Globally Harmonized System of Classification.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Polytetrafluoroethylene	9002-84-0	>90 %
Copper	7440-50-8	1-10 %
Ingredients determined not to be hazardous		Balance

4. FIRST-AID MEASURES

Inhalation

Not considered a potential route of exposure. However, if inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

Ingestion

Unlikely due to form of product. However, if ingested, do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek medical attention.

Skin

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

Eye contact

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. If symptoms develop and/or persist seek medical attention.

First Aid Facilities

Eyewash and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use carbon dioxide, dry chemical or foam.

Hazards from Combustion Products

Under fire conditions above 260°C/500°F this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide, oxides of nitrogen, carbonyl fluoride and hydrogen fluoride.

Specific Hazards Arising From The Chemical

Combustible solid; will readily burn under fire conditions.

Decomposition Temperature

> 260°C/500°F

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 vapors 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.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Wear appropriate personal protective equipment and clothing to prevent exposure. Collect the material and place into a suitable labeled container. 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.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid exposure. Use only in a well ventilated area. Keep containers tightly closed. Prevent the buildup of dusts, mists or vapors in the work atmosphere. Do not use near ignition sources. Maintain high standards of personal hygiene i.e. 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, out of direct sunlight. Ensure that storage conditions comply with applicable local and national regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

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

Copper

TWA: 1(Dust and mist) mg/m³

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.

Polytetrafluoroethylene

The material is not normally an inhalation hazard at temperatures below 260°C/500°F as it remains an inert solid.

however, exposure to thermal degradation products at temperatures above 500°F or fumes from tobacco contaminated with particles of the product may result in polymer fume fever' or influenza-like symptoms (chills, headaches, difficulty in breathing and fever). Symptoms may appear several hours after exposure but will

Hydrogen fluoride

TWA: 3 ppm

TWA: 2.6 mg/m³

NOTICE: Peak limitation

Carbonyl fluoride is the main decomposition product formed when Polytetrafluoroethylene is subjected to extended exposure at normal sintering temperatures (500°C/752°F). Carbonyl fluoride is immediately converted to highly corrosive hydrogen fluoride in the presence of moist air.

Copper

The chief effect from industrial exposures is on the upper respiratory tract, expressing itself as a metal fume fever with atrophic changes in the nasal mucus membrane and subjective effects associated with the irritative nature of the copper fume, dusts and mists. Sneezing, coughing and digestive disorders can result from inhalation of copper dust.

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.

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.

Biological Limit Values

No biological limits allocated.

Appropriate Engineering Controls

Use with good general ventilation.

Respiratory Protection

Generally not required.

Eye Protection

Generally not required.

Hand Protection

None required, when used as intended.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Copper colored film

Color

Copper

Odor

Odorless

Decomposition Temperature

> 260°C/500°F

Melting Point

Not available

Freezing Point

Not available

Boiling Point

Not available

Solubility in Water

Insoluble

Specific Gravity

2.7

pH

Not available

Vapor Pressure

Not available

Vapor Density (Air=1)

Not available

Evaporation Rate

Not available

Viscosity

Not available

Partition Coefficient: n-octanol/water

Not available

Density

Not available

Flash Point

Not available

Flammability

Combustible

Auto-Ignition Temperature

Not available

Explosion Limit - Upper

Not available

Explosion Limit - Lower

Not available

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions of storage and handling.

Reactivity and Stability

Reacts with incompatible materials.

Conditions to Avoid

Temperatures above 260°C/500°F without adequate ventilation.

Incompatible materials

Alkali metals, extremely potent oxidizers e.g. fluorine, chlorine tri-fluoride, 80% NAOH or KOH, metal hydrides such as boranes (e.g. B₂H₆) aluminum chloride, ammonia, certain amines (R-NH₂)imines (RH-NH) and 70% nitric acid at temperatures near 260°C/500°F. Do not use on oxygen lines. Concentrated acids might react with metal powders dispersed through the tape.

Hazardous Decomposition Products

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

Possibility of hazardous reactions

Not available

Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

No toxicity data available for this material.

Ingestion

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Inhalation

No adverse effects expected.

Skin

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

Eye

May be irritating to eyes. The symptoms may include redness, itching and tearing.

Respiratory sensitization

Not expected to be a respiratory sensitizer.

Skin Sensitization

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.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No ecological data available for this material.

Persistence and degradability

Not available

Mobility

Not available

Bioaccumulative Potential

Not available

Other Adverse Effects

Not available

Environmental Protection

Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal considerations

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information

Road and Rail Transport:

Not classified as Dangerous Goods.

Marine Transport (IMO/IMDG):

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

U.N. Number

None Allocated

UN proper shipping name

None Allocated

Transport hazard class(es)

None Allocated

IMDG Marine pollutant

No

15. REGULATORY INFORMATION

Regulatory information

Not 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

16. OTHER INFORMATION
