

Safety Data Sheet

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Issue Date: September 2015

ISSUED by UNASCO

Product Name **STAINLESS STEEL THREAD SEALING TAPE**

1. Identification

GHS Product Identifier STAINLESS STEEL THREAD SEALING TAPE
Company Name UNASCO PTY LTD
Address 1 Amax Avenue
Girraween, NSW 2145 Australia
Telephone/Fax Number **Non-Emergency** 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 Sealing threads of stainless steel pipe and fittings.

2. Hazard Identification

Classification of the substance or mixture Not classified as Hazardous according to the Globally Harmonized System of Classification and labeling of Chemicals (GHS).

3. Composition/information on ingredients

Chemical Characterization Information on Article
A test conducted by wiping both sides of the tape with a tissue soaked in acetone indicates that there is <1% of free nickel on the surface of the tape. There is more than <1% in the final product but most of the Ni is encapsulated in the tape. There would be less than <1% by weight exposed on the surface of the tape.

Ingredients	Name	CAS	Proportion
	Polytetrafluoroethylene	9002-84-0	60-100 %
	Nickel	7440-02-0	10-30 %
	Distillates, petroleum, Hydro-treated light	64742-47-8	0-1 %
	Ingredients determined not to be hazardous.		Balance

4. First-aid measures

Inhalation Not considered a potential route of exposure.
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 Not considered a potential route of exposure.
Eye contact Not considered a potential route of exposure. However if in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and persist seek medical attention.
First Aid Facilities Eyewash and normal washroom facilities.
Advice to Doctor Treat symptomatically.
Other Information

5. Fire-fighting measures

Suitable extinguishing media Use carbon dioxide, dry chemical, water mist or water spray.
Hazards from Combustion Products Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide and oxides of nitrogen.

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Specific hazards arising from the chemical Combustible. This product will readily burn under fire conditions. Product will also burn in an atmosphere of greater 95% of oxygen.

Decomposition Temp. 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

Personal precautions, protective equipment and emergency Protective equipment and special precautions not required. 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 Use only in a well ventilated area. Keep containers closed when not in use. 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 away from sources of ignition, oxidizing agents, foodstuffs, and clothing. Keep containers closed when not in use and protected against physical damage. 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.

Corrosiveness Non corrosive

Storage Temperatures Store in cool place below 260°C (500°F).

8. Exposure controls/personal protection

Occupational exposure limit values available exposure limits for ingredients and dust are listed below:

Substance	TWA ppm mg/m ³	STEL ppm mg/m ³	Notices
	1		Nickel, metal

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.

`Sen' Notice: The substance may cause sensitization by skin contact or by inhalation

Biological Limit Values No biological limits allocated.

Appropriate engineering controls Use with good general ventilation. If mists or vapors are produced, local exhaust ventilation should be used.

Respiratory Protection Not required under normal conditions of use (Temperature below 260°C 500°F) However, if engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable mist filter should be used.

Eye Protection Not required under normal conditions of use.

Hand Protection Not necessary under normal conditions of use in most case since less than 1%

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of free nickel on the surface of the tape. However, persons with pre-existing skin medical conditions and/or allergic reactions should avoid repeated skin contact and wear impervious chemical gloves. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken.

Body Protection Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended.

9. Physical and chemical properties

Form	Article Silver-
Appearance	gray tape
Color	Silver-gray
Odor	Odorless
Decomposition Temperature	260°C (500°F)
Melting Point	Not available
Boiling Point	Polymer component depolymerises at 260°C(500°F).
Solubility in Water	Insoluble
Solubility in Organic Solvents	Insoluble
pH	Not applicable
Vapor Pressure	Not available
Vapor Density (Air=1)	Not applicable
Evaporation Rate	Not applicable
Odor Threshold	Not available
Viscosity	Not applicable
Partition Coefficient: n-octanol/water	Not available
Density	1.6g/cm ³
Flash Point	Not applicable
Flammability	Not flammable
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not applicable
Flammable Limits - Upper	Not applicable
Explosion Properties	Not explosive
Other Information	Not sensitive to shock.

10. Stability and reactivity

Reactivity	Alkali metals remove fluorine from the polymer molecule. Extremely potent oxidizers such as fluorine and related compounds can be handled by PTFE with great care. The mixture becomes sensitive to a source of ignition such as impact. Some acids might react with nickel on the surface of the tape. Stable under normal conditions of storage and handling. Stable up to 260°C(500°F)
Chemical Stability	
Conditions to Avoid	Heat, flames and other sources of ignition.

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Incompatible Materials	Strong oxidizing agents. Alkali metals such as elemental sodium, potassium, lithium. 80% NaOH or KOH. Some acids (react with nickel). Metal hydrides such as boranes (e.g. B ₂ H ₆), aluminum chloride, ammonia, certain amines (R - NH ₂), imines (R-NH) and 70% nitric acid -260°C(436°F) To 260°C(500°F). DO NOT use on OXYGEN LINES.
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon oxides, hydrogen fluoride.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Toxicology Information	No toxicology data available for this product.
Ingestion	Ingestion of this product may irritate the gastric tract causing nausea and vomiting
Inhalation	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 260°C including nickel and its oxides, may produce severe pulmonary irritation which may be fatal. Signs and symptoms of pulmonary effects due to thermal decomposition may include sneezing, coughing, headaches, breathing difficulties and a pseudo-flu condition with fever and muscular pains. These effects may also be delayed. Gastrointestinal disturbances and convulsions can also occur.
Skin	Nickel powder dispersed through the tape may cause irritation in contact with the skin, which can result in redness, itchiness and possible dermatitis. 'Nickel itch' may begin with a burning sensation and localized itching on the hand, redness and nodular eruptions on the web of the fingers.
Eye	No adverse effects expected.
Respiratory sensitization	Not expected to be a respiratory sensitizer.
Skin Sensitization	Not expected to be a skin sensitizer in most case since less than 1% of free nickel on the surface of the tape. However, may lead to allergic contact dermatitis and sensitisation in some individuals with pre-existing skin medical conditions and/or allergic reactions.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Carcinogenicity	Not considered to be a carcinogenic hazard. Nickel is listed as a Group 2B: Possibly carcinogenic to humans according to International Agency for Research on Cancer (IARC). Polytetrafluoroethylene is listed as a Group 3: Not classifiable as to carcinogenic 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 through repeated or prolonged exposure.
Aspiration Hazard	Not expected to be an aspiration hazard.
Other Information	Prolonged or repeated exposure to this material may result in skin irritation leading to dermatitis or sensitization. Repeated or prolonged exposure to thermal decomposition products may lead to serious toxic effects possibly leading to liver and kidney damage and possible heart failure. Chronic low-level exposure to nickel may cause allergies (occasionally asthma) in humans. Nickel has also been known to cause nose and sinus inflammation.

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12. Ecological information:

Ecotoxicity No ecological data are available for this material.
Not available

Persistence and degradability Not available

Mobility Not available

Bioaccumulative Potential Not available

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 (ADG Code):

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.

IMDG Marine Pollutant No

15. Regulatory information

Regulatory Information

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