

Infosafe No™ LQ3A5	Issue Date : May 2014	ISSUED by UNASCO
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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
N.S.W. 2145 Australia

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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 Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

3. Composition/information on ingredients

Chemical Characterization Information on Composition 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	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Polytetrafluoroethylene	9002-84-0	60-100 %
	Nickel	7440-02-0	10-30 %
	Distillates, petroleum, hydrotreated 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 For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

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.

Safety Data Sheet

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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

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Protective equipment and special precautions not required. Collect the material and place into a suitable labelled 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, oxidising 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.

8. Exposure controls/personal protection

Occupational exposure limit values No exposure value assigned for this material by Safe Work, Australia. However, the available exposure limits for ingredients and dust are listed below:
Safe Work, Australia Exposure Standards:

Substance	TWA		STEL		NOTICES
	ppm	mg/m ³	ppm	mg/m ³	
Nickel, metal	-	1	-	-	Sen

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 sensitisation by skin contact or by inhalation

Biological Limit Values No biological limits allocated.

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

Respiratory Protection Not required under normal conditions of use (Temperature below 260°C). However, if engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable mist filter should be used. Reference should be made to Australian/New Zealand 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 Protection Not required under normal conditions of use. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

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

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

9. Physical and chemical properties

Form	Article
Appearance	Silver-grey tape
Colour	Silver-grey
Odour	Odourless
Decomposition Temperature	260°C
Melting Point	Not available
Boiling Point	Polymer component depolymerises at 260°C.
Solubility in Water	Insoluble
Solubility in Organic Solvents	Insoluble
pH	Not applicable
Vapour Pressure	Not available
Vapour Density (Air=1)	Not applicable
Evaporation Rate	Not applicable
Odour 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 oxidisers such as fluorine and related compounds can be handled by Teflon 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.
Chemical Stability	Stable under normal conditions of storage and handling. Stable up to 260°C
Conditions to Avoid	Heat, flames and other sources of ignition.

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Incompatible Materials	Strong oxidising 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), aluminium chloride, ammonia, certain amines (R - NH ₂), imines (R-NH) and 70% nitric acid (-268°C to +260°C). 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 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 localised itching on the hand, redness and nodular eruptions on the web of the fingers.
Eye	No adverse effects expected.
Respiratory sensitisation	Not expected to be a respiratory sensitiser.
Skin Sensitisation	Not expected to be a skin sensitiser 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. Nikel 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 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 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 sensitisation. 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.

12. Ecological information

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Ecotoxicity	No ecological data are 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.
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14. Transport information

Transport Information	<p>Road and Rail Transport (ADG Code): Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).</p> <p>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.</p> <p>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.</p>
IMDG Marine pollutant	No

15. Regulatory information

Regulatory Information	Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.
Poisons Schedule	Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP). Not Scheduled

16. Other Information

Date of preparation or last revision of SDS	SDS Reviewed: May 2014 Supersedes: May 2003 (infosafe ACQXB)
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. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. Workplace exposure standards for airborne contaminants, Safe work Australia. American Conference of Industrial Hygienists (ACGIH). Globally Harmonised System of classification and labelling of chemicals. ...End Of MSDS...

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