

Infosafe No™ LQ3A5

Issue Date : May 2014

ISSUED by MILL-ROSE

Product Name **STAINLESS STEEL THREAD SEALING TAPE****1. Identification**

**GHS Product Identifier** STAINLESS STEEL THREAD SEALING TAPE

**Company Name** Mill-Rose

**Address** 7310 Corporate Blvd  
Mentor, Ohio 44060  
USA

**Telephone/Fax Number** Tel: (440)9746730  
Fax: (440)2551072

**Recommended use of the chemical and restrictions on use** Sealing threads of stainless steel pipe and fittings.

**2. Hazard Identification**

**Classification of the substance/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/info 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		Balance

not to be hazardous.

**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 than 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 safe for 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 <sup>3</sup>	ppm	mg/m <sup>3</sup>	
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

No biological limits allocated.

**Biological Limit Values**  
**Appropriate engineering controls**  
**Respiratory Protection**

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

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 cases 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.

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

## 9. Physical and chemical properties

<b>Form</b>	Article
<b>Appearance</b>	Silver-grey tape
<b>Colour</b>	Silver-grey
<b>Odour</b>	Odourless
<b>Decomposition Temperature</b>	260°C
<b>Melting Point</b>	Not available
<b>Boiling Point</b>	Polymer component depolymerises at 260°C.
<b>SolubilityWater in</b>	Insoluble
<b>Solubility in Organic Solvents</b>	Insoluble
<b>pH</b>	Not applicable
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (Air=1)</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable
<b>Odour Threshold</b>	Not available
<b>Viscosity</b>	Not applicable
<b>Partition Coefficient: n-octanol/water</b>	Not available
<b>Density</b>	1.6g/cm <sup>3</sup>
<b>Flash Point</b>	Not applicable
<b>Flammability</b>	Not flammable
<b>Auto-Ignition Temperature</b>	Not available
<b>Flammable Limits - Lower</b>	Not applicable
<b>Flammable Limits - Upper</b>	Not applicable
<b>Explosions P</b>	Not explosive
<b>Other Information</b>	Not sensitive to shock.

## 10. Stability and reactivity

<b>Reactivity</b>	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.
<b>Chemical Stability</b>	Stable under normal conditions of storage and handling. Stable up to 260°C
<b>ConditionsAvoid to</b>	Heat, flames and other sources of ignition.

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<b>Incompatible Materials</b>	Strong oxidising agents.
<b>Hazardous Decomposition Products</b>	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 <sub>2</sub> H <sub>6</sub> ), aluminium chloride, ammonia, certain amines (R - NH <sub>2</sub> ), imines (R-NH) and 70% nitric acid (-268°C to +260°C). DO NOT use on OXYGEN LINES.
<b>Hazardous Polymerization</b>	Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon oxides, hydrogen fluoride.
	Will not occur.

## 11. Toxicological Information

<b>Toxicology Information</b>	No toxicology data available for this product.
<b>Ingestion</b>	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
<b>Inhalation</b>	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.
<b>Skin</b>	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.
<b>Eye</b>	No adverse effects expected.
<b>Respiratory sensitisation</b>	Not expected to be a respiratory sensitiser.
<b>Skin Sensitisation</b>	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.
<b>Germ cell mutagenicity</b>	Not considered to be a mutagenic hazard.
<b>Carcinogenicity</b>	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).
<b>Reproductive Toxicity</b>	Not considered to be toxic to reproduction.
<b>STOT -single exposure</b>	Not expected to cause toxicity to a specific target organ.
<b>STOT -repeated exposure</b>	Not expected to cause toxicity to a specific target organ through repeated or prolonged exposure.
<b>Aspiration Hazard</b>	Not expected to be an aspiration hazard.
<b>Other Information</b>	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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<b>Ecotoxicity</b>	No ecological data are available for this material.
<b>Persistence and degradability</b>	Not available
<b>Mobility</b>	Not available
<b>Bioaccumulative Potential</b>	Not available
<b>Other Adverse Effects</b>	Not available
<b>Environmental Protection</b>	Prevent this material entering waterways, drains and sewers.

### 13. Disposal considerations

<b>Disposal Considerations</b>	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

<b>Transport Information</b>	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). 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. No
<b>IMDG Marine pollutant</b>	

### 15. Regulatory information

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

### 16 Information. Other

<b>Date of preparation or last revision of SDS</b>	SDS Reviewed: May 2014 Supersedes: May 2003 (infosafe ACQXB)
<b>Literature</b>	Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice. Standard for the Uniform Scheduling of Medicines and Poisons.
<b>References</b>	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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