

Date Prepared: May 1, 2015

1. **Product and Company Identification**

RJ Stacey Ltd.  
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Product Name: RJS-Dry-Pak 18  
Product Type: Stainless Steel Fiber Mixture  
Product Description: Stainless Steel Fibers  
General Use : Sealant Additive

2. **Hazards Identification**

**GHS Classification :**

Skin Irritation, 2  
Eye Irritation, 2B

**GHS Label Elements :**

Signal Word : Warning



**Hazard Statements:**

H315 / 320 Can cause Skin and Eye Irritation

**Precautionary Statements :**

P261 Avoid breathing dust  
P262 Do not get in eyes, on skin, or on clothing  
P285 In case of inadequate ventilation wear respiratory protection  
P281 Use personal protective equipment as required  
P301/P312 If Swallowed: Call a poison center or doctor if you feel unwell  
P302/P352 If on skin: Wash with plenty of soap and water  
P333/P313 If skin irritation or rash develops: Get medical attention.  
P305/P351/P338 If in eyes : Rinse cautiously with water for several minutes.  
Remove contact lenses if easy to do. Continue Rinsing.  
P337/P313 If eye irritation persists: Get medical attention  
P233 Keep container tightly closed  
P501 Dispose of observing all Federal, State and Local regulations.

**3. Composition / Information on Ingredients**

Ingredients	CAS No.	% by weight
Stainless Steel Fibers		100
Composed of :		
Iron	7439-89-6	
Chromium	7440-47-3	
Carbon	7440-44-0	
Manganese	7439-96-5	
Silicon	7440-21-3	
Nickel	7440-02-0	
Molybdenum	7439-98-7	

**4. First Aid Measures**

Ingestion: DO NOT INGEST. Oral toxicity of mixture not determined.  
Call a physician or get medical help. Do not induce vomiting.

Inhalation: Remove to fresh air. consult physician if symptoms develop.

Skin Contact: Wash with soap and water, consult physician if irritation develops.

Eye Contact: Flush with water 15 minutes. If symptoms persist, seek medical attention.

**5. Fire Fighting Measures**

Recommended Extinguishing Agent:  
Use class D extinguishing media.

Special Fire Fighting Procedures:  
Self contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. (Professionally Trained Personnel).

Hazardous Products Formed by Fire or Thermal Decomposition:  
When involved in a fire, this material may decompose generating dusts, irritating fumes, and toxic gases (Iron Oxides)

Unusual Fire or Explosion Hazards: None

Compressed Gases: None  
Pressure at Room Temperature: Does not apply

**6. Accidental Release Measures**

Steps to be taken in cases of spill or leak:  
Wear proper personal protective equipment. Remove any sources of ignition from the area and allow hot surfaces to cool. Return uncontaminated material to container and seal container tightly. Dispose of contaminated material or waste.

**7. Handling and Storage**

Storage: Cool, dry, storage. Store in closed containers

Handling: Avoid contact with skin and eyes.  
Wear appropriate safety gear as required in work area.  
Avoid contact with electricity. (conductive)

**8. Exposure Controls / Personal Protection**

Exposure Limits Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Iron	5mg/m3	10mg/m3	
Chromium	.5mg/m3	.5mg/m3	
Carbon	N/E	N/E	
Manganese	5mg/m3	5mg/m3	
Silicon	10mg/m3	10mg/m3	
Nickel	.05mg/m3	1mg/m3	
Molybdenum	N/E	N/E	

**Personal Protective Equipment (PPE)**

Eyes: Safety Glasses  
Full face shield recommended. (during injection process)

Skin: Chemical resistant gloves.

Respiratory Protection: If necessary, NIOSH approved for dust if necessary.

Other Protective Clothing or Equipment: Coveralls or other protective clothing. Safety equipment as required in area..

Work / Hygienic Practices: Avoid contact with skin. Wash hands before eating or smoking.

Engineering Controls : None required.

**9. Chemical and Physical Properties**

Appearance: Silver/Gray Fine Steel

Odor: Negligible

pH: Not Established

Solubility in Water: NIL

Specific Gravity: 7.5 – 8.0 (H<sub>2</sub>O =1)

Evaporation Rate: Not Applicable

Boiling Point: Not Applicable

Melting Point: 2400-2800 F

Vapor Pressure: Not Established

Vapor Density: Not Established

VOC Content: None

Flash Point: Not Applicable Method: None

**Flammable Limits:**

LEL: Not Established

UEL: Not Established

**10. Stability and Reactivity**

Stability: Stable

Hazardous Polymerization: Will not occur

Hazardous Decomposition  
Or By-Products: Hydrogen is formed when in contact with mineral acids, metal fumes,  
hexavalent chromium, hydrogen gas, or oxide fumes.

Incompatibility: Strong Oxidizers and Strong Acids, Avoid contact with electricity. (conductive)

**11. Toxicology Information**

Primary Routes of Entry:	Inhalation and contact.
Signs and Symptoms of Overexposure:	<b>Inhalation:</b> Dust can cause respiratory irritation. <b>Eyes:</b> Irritation, redness and pain <b>Skin:</b> May cause irritation
Existing Conditions Aggravated by Exposure:	None Known
Carcinogenicity	
NTP:	Nickel & Chromium
IARC:	Nickel & Chromium
OSHA Regulated:	No
Toxicity:	Not Determined
Acute Health Hazards:	Respiratory irritation, skin irritation
Chronic Health Hazards:	Carcinogen – Nickel & Chromium. Chromium: compounds act as allergens causing dermatitis, pulmonary sensitization. Manganese: chronic manganese poisoning. Nickel: nickel itch, neoplasms.

**12. Ecological Information**

No known eco-toxicology effects.

**13. Disposal Considerations**

RCRA 40 CFR 261 Classification : This product as purchased does not fall under current US EPA RCRA definitions of Hazardous Waste. Recycling is recommended.  
It is recommended that if this product in its purchased form is going to become a waste, that it be disposed of by a licensed waste disposal company, observing all Federal, State and Local regulations. Can be landfilled or incinerated. Additionally, certain state regulations could affect whether a material is considered a hazardous waste upon disposal. It must also be noted that a material can become a hazardous waste if it is mixed with or comes in contact with a hazardous substance during use. Under RCRA it is the responsibility of user of a product to determine at the time of disposal, whether a material should be classified as a hazardous waste.

**14. Transport Information**

DOT (49 CFR 172): Not Regulated

IATA : Not Regulated

Liquid / Solid (per ASTM D 4359-90) : Material is a solid

**15. REGULATORY INFORMATION**

CERCLA HAZARDOUS SUBSTANCES (40 CFR Part 302.4): Chromium RQ 5000 lbs.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR Part 355): This product does not contain any SARA 302 Extremely Hazardous Substances.

SARA TITLE III SECTION 311/312 HAZARDOUS CATEGORIZATION (40 CFR Part 370): Certain ingredients of this product are regulated under Sara Title III Section 311/312, see section 3 of this MSDS.

SARA TITLE III SECTION 313 (40 CFR Part 372): Nickel, Chromium

U.S. INVENTORY (TSCA): Any chemical substances (as defined in 40 CFR Part 710.2), that are contained in, or used in the manufacture of this product, are reported in the EPA TSCA Inventory. (As required per 40 CFR 710.3)

CALIFORNIA PROPOSITION 65: Nickel & Chromium

CANADA WHMIS: WHMIS ingredient disclosure list : Chromium

EUROPEAN UNION :  
 Nickel : CLP Skin Sens 1, Carc 2, STOT RE1, Aquatic Chronic  
 Chromium : CLP Skin Sens.1, Carc 1b, Aquatic Acute 1, Aquatic Chronic 1

OZONE DEPLETERS: \* This product is not manufactured with or contains any Class I or Class II Ozone Depleting Chemicals. (ODC's)

**16. OTHER INFORMATION**

The information contained in this MSDS sheet is based upon data supplied by our suppliers and data determined by us in our facilities at the time these products were formulated. We have reviewed any information that we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety data in this sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. If after reviewing this MSDS you have determined that this product poses unusual risks to you, your plant, or your plant personnel, or if you cannot comply fully with all safety recommendations, do not use this product. This product is intended for a temporary repair. The responsibility for whether or not the product is suitable for use rest solely with the purchaser. We recommend that the product be tested prior to use. Your use of this information is beyond our control, therefore, the information is provided without warranty expressed or implied. We accept no liability beyond the purchase price of the material.

Estimated HMIS® Code:

Health Hazard:	0
Flammability Hazard:	0
Physical Hazard:	0
Personal Protection:	NPCA recommends that PPE codes be determined by the employer, who is familiar with the actual conditions under which chemicals in the facility are used.

Procedural Warning:

Attn: Technician

(For industrial use by professionally trained personnel only) When the compound is curing, vapors and gasses are given off and should be vented. Steps should be taken to insure that the injection pressure in conjunction with pressure that may occur from gassing off does not exceed the pressure limitations of the piping system. Also, be aware it is quite common that the application temperature will exceed the compound flash point. Be aware of the possibility of a flash and take necessary precautions. Avoid contact with skin and eyes. See section 8 of SDS for personal protective equipment. Ventilation may be needed during heating/curing stage to exhaust organic vapors resulting from vaporization of certain organic agents. Always avoid direct contact with smoke and vapors being emitted from the compound during the heating/curing process. These vapors may be irritating to the skin, eyes and respiratory system. Read product technical data and safety information before use. Avoid contact with electricity. (conductive)

**PREPARATION INFORMATION**

Prepared By:	Safety Department
Company:	RJ Stacey Ltd.
Revision Date:	05-01-15 Revision: A

