SAFETY DATA SHEET
STAINLESS STEEL PIPE SUPPORTS

FIRE RATED SOLUTIONS PTY LTD

1 IDENTIFICATION OF THE SUBSTANCE/PREPERATIONS AND OF THE COMPANY UNDERTAKING

Product Name	Stainless steel 304 (CF8 cast), 310 grades
Product Description	Service pipe support system 100mm and 150mm
Supplier Information	Fire Rated Solutions Pty Ltd
Address	8 Brokenwood Pl Cherrybrook NSW 2126
Phone	+61 420 6222 88
MSDS First Issue	5th July 2021

2 HAZARDS IDENTIFICATION

Main Hazards	Not classified as hazardous
Emergency Overview	Warning! Welding, sawing, brazing, grinding and machining may cause hazardous dust and or fumes to be released. This product is sold as a solid and does not present an immediate health or fire hazard
Carcinogenic Status	Not considered carcinogenic by NTP, IARC & OSHA
Target organs	Eyes, Skin, Lung for exposure to dust/ fumes during processing. See section 11 for additional information
Health effects – Eyes - Skin	Sharp edges on solid products may cause cuts or laceration, contains nickel which may cause skin sensitization on contact with dust or fumes created during installation may cause irritation
Health effects – Ingestion	Ingestion is not a route of exposure under normal Conditions of use
Health effects – Inhalation	Prolonged and repeated exposure to dust or fume Created from processing may cause irritation of nose Throat and respiratory tract, headache and dizziness long term inhalation may cause siderosis a build up of iron in the lungs

3 COMPOSITION / INFORMATION ON INGREDENTS

ELEMENT GRADE	C	S	P	Si	Mn	Cr	Ni	Cu	Mo	V	Ti
310 (CF8)	.05	<.01	.02	.41	1.0	24.5	19.8	.14	.13	.09	.01
304	.05	<.01	.02	.58	1.1	18.1	8.1	.08	.17	1.0	.01

4 FIRST – AID MEASURES

First Aid – Eyes	In case of injury to the eye, seek medical attention If dust particles created by cutting get into the eye Immediately flush with water for at least 15 minutes. Contact a physician
First Aid – Skin	Seek medical attention for serious cuts or lacerations or if irritation from contact with dust persists
First Aid – Ingestion	Not a route of exposure
First Aid – Inhalation	For overexposure to airborne fumes and dusts Created from cutting, move to fresh air immediately And contact physician

5 FIRE - FIGHTING MEASURES

Extinguishing Media	For molten metal use dry powder or sand. Do not use water on molten metal. Use extinguishing media appropriate for surrounding materials.
Unusual Fire and Explosion	May release hazardous fumes during a fire
PPE For Fire Fighting	Fire fighters should be equipped with self-contained breathing apparatus and full protective clothing

6 ACCIDENTAL RELEASE MEASURES

For spills of dust or small particles use vacuum or wet sweep methods. Avoid contact with skin and eyes. Place in suitable container for disposal. Dispose of waste materials in accordance with local, state and federal regulations. Avoid release to waterways.

7 HANDLING AND STORAGE

When processing, use in well ventilated area. Avoid inhaling dust and fumes. Avoid contact with eyes, skin and clothing. Store away from acids.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards		
Exposure limits:	Iron as Iron oxide:	ACGIH TLV:5mg/m³ TWA, Measured as respirable fraction of the aerosol OSHA PEL: 10mg/m³ TWA fume
Exposure limits:	Manganese, Fume,	ACGIH TLV:0.2mg/m³ TWA OSHA PEL: 5mg/m³ CEIL (C)
Exposure limits:	Chromium Metal:	ACGIH TLV: 05mg/m³ TWA OSHA PEL: 1MG/M³ TWA
Exposure limits:	Copper, Dusts and mists as Cu	ACGIH TLV: 1mg/m³ TWA OSHA PEL: 1mg/m³ TWA
Exposure limits:	Nickel, Insoluble compounds, as Ni:	ACGIH TLV: .2mg/m³ TWA, measured as inhalable fraction of the aerosol (inorganic only)
Exposure limits:	Molybdenum and insoluble components as Mo:	ACGIH TLV 10mg/m³ TWA, measured as inhalable fraction of the aerosol ACGIH TLV: 3mg/m³ TWA Measured as respirable fraction of the aerosol
Exposure limits:	Silicon:	OSHA PEL 15mg/m³ TWA Total dust 5mg/m³ TWA Respirable Fraction
Exposure limits:	Aluminum, Metal (dust)	ACGIH TLV 1mg/m³ TWA OSHA PEL: 15mg/m³ TWA total dust 5mg/m³ TWA respirable fraction
Exposure limits:	Phosphorus, sulfur and carbon as particulates Not otherwise classified (PNOC)	OSHA PEL: 15mg/m³ TWA Total dust 5mg/m³ TWA respirable fraction
Engineering Control Measures	Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust) especially during welding, grinding or cutting, and control of process conditions	
Respiratory Protection	The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator	
Hand Protection	Protective gloves	
Eye Protection	Chemical goggles	
Body Protection	Normal workwear	

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Odor	None
Colour	Grey
Ph	No Data Available
Melting Point (^{0} F)	2800
Specific Gravity	No Data Available
Flash Point	Not Flammable
Vapor Pressure (mm Hg@20^{0}C)	Not Applicable
Solubility in Water	Insoluble
VOC	Not Applicable
Vapor Density (Air = 1)	Not Applicable

10 STABILITY AND REACTIVITY

Stability	Stable under normal conditions
Conditions to Avoid	Contact with incompatible materials
Materials to Avoid	Strong Acids
Hazardous Polymerization	Hazardous polymerization will not occur
Hazardous Decomposition Products	Oxides of Iron and alloying elements

11 TOXICOLIGY INFORMATION

Acute Toxicity	No relevant studies identified
Chronic	Welding fumes IARC Group carcinogen (possibility carcinogenic to humans)
Toxicity/ Carcinogenicity	Nickle: IARC Group B carcinogen (possibly carcinogenic to

	humans) NTP: Anticipated Carcinogen contact from dust /fumes from processing mat cause respiratory sensitization (nickel) and skin sensitization. (Nickel, Chromium, Copper) Chronic exposure to ingredients contained in dust / fume from processing may cause adverse effects to the lungs, liver, kidneys, and blood
Genotoxicity	No relevant studies identified
Reproductive / Development Toxicity	Chronic exposure to manganese dust may cause reproductive disorders.

12 ECOLOGICAL INFORMATION

Mobility	No relevant studies identified
Persistence/Degradability	No relevant studies identified
Bio-accumulation	No relevant studies identified
Ecotoxicity	No relevant studies identified

13 DISPOSAL CONSIDERATIONS

Stainless steel is capable of being 100% recycled. Thus, surplus material and scrap waste should be recycled as preferred method

14 TRANSPORT INFORMATION

DOT CFR 172.101 Data	Not Regulated
Proper shipping name	Not Regulated
UN class	Not Regulated
UN Number	Not Regulated
UN packing group	Not Regulated

Not classified as dangerous goods

15. REGULATORY INFORMATION

Not classified as hazardous according to the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.
Regulation (EC) No 1907/2006 (REACH) Article 7.1 Not applicable
Regulation (EC) No 1907/2006 (REACH) Article 7.2 Not applicable
Regulation (EC) No 1907/2006 (REACH) Article 33 Not applicable

Poisons Schedule
Not Classified as a Scheduled poison according to the standards for the uniformed scheduling of medicines and poisons (SUSMP)

16. OTHER INFORMATION

NFPA Ratings	Health - 0
	Flammability - 0
	Reactivity - 0
	Special Hazards – 0
HMIS Ratings	Health - 2*
	Flammability - 0
	Reactivity - 0
	Personal Protection - See Section 8 *for dust/fume created from processing

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