

FROHN North America Inc.
6289 Bankhead Hwy. Bldg 11A-D
Austell, GA 30168
 Phone: (770) 819-0089 Fax (770) 819-0052

Material Safety Data Sheet

S-CW AISI 430 (Ferritic Stainless Steel CW)
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SECTION I IDENTIFICATION

Product Identity (As Used on Label and List): <i>FROHN Stainless Steel Cut Wire Shot</i>	
Manufacturer: <i>FROHN North America, Inc.</i> <i>6289 Bankhead Hwy. Building 11A</i> <i>Austell, GA 30168</i>	Date prepared: <i>January 2, 2008</i>
Telephone Number: <i>(770) 819 – 0089</i>	E-mail: <i>info@frohn.com</i>

SECTION II HAZARDOUS INGREDIENTS

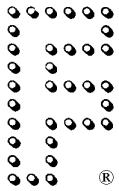
Hazardous components (specific chemical identity: common name(s))	OSHA PEL	ACGIH TLV	CAS Reg. No.
<i>Iron Oxide fume as Fe</i>	<i>10</i>	<i>5</i>	<i>7349-89-6</i>
<i>Manganese elemental and Inorganic compounds as Mn</i>	<i>5 ceiling</i>	<i>none est.</i>	<i>7439-96-5</i>
<i>Silicon as total dust</i>	<i>15</i>	<i>10</i>	<i>7440-47-3</i>
<i>Silicon as respirable fraction</i>	<i>5</i>	<i>none est.</i>	<i>(“)</i>
<i>Chromium elemental metal & Inorganic compounds as Cr metal</i>	<i>1</i>	<i>0.5</i>	<i>7440-47-3</i>
<i>Cr II compounds - as Cr</i>	<i>none est.</i>	<i>0.5</i>	<i>(“)</i>
<i>Cr III compounds – as Cr</i>	<i>0.5</i>	<i>0.5</i>	<i>(“)</i>
<i>Cr VI compounds – water soluble</i>	<i>0.05</i>	<i>none est.</i>	<i>(“)</i>
<i>Cr VI compounds – insoluble</i>	<i>0.01</i>	<i>none est.</i>	<i>(“)</i>
<i>Chromic Acid and Chromates as CrOg</i>	<i>none est.</i>	<i>0.1 ceiling</i>	<i>(“)</i>
<i>Chromium salts – insoluble as Cr</i>	<i>none est.</i>	<i>1</i>	<i>(“)</i>
<i>Nickel elemental metal - insoluble compounds as Ni</i>	<i>none est.</i>	<i>none est.</i>	<i>7440-02-0</i>
<i>soluble compounds as Ni</i>	<i>none est.</i>	<i>none est.</i>	<i>(“)</i>

SECTION III PHYSICAL DATA

Boiling Point: <i>3121 – 3423 degrees K</i>	Specific Gravity (H2O = 1): <i>7,7g/ccm (at 293 degrees K)</i>
Vapor Pressure (mm Hg.): <i>not applicable</i>	Melting Point: <i>1644 - 1756 degrees K</i>
Vapor Density (AIR = 1): <i>not applicable</i>	Percent solid by weight: <i>100 %</i>
Solubility in Water: <i>not applicable</i>	Appearance and Odor: <i>near spherical, gray color & no odor</i>

SECTION IV FIRE and EXPLOSION HAZARD DATA

Flash Point: <i>not applicable</i>	Flammable Limits: <i>not applicable</i>	Extinguishing Media: <i>Class D extinguishing agents</i>
Unusual Fire and Explosion Hazards: <i>Stainless cut wire-peening media will not burn or explode. A mild fire or explosion hazard may arise however when using cut wire peening media due to inadequate house cleaning or poor dust removal from the shot blaster which results in the build up of fine dust.</i>		
Special Fire Fighting Procedures: <i>This fire extinguishing method is for dust created due to the use of Stainless cut wire peening media- Class D extinguishing agents or dry sand should be used to exclude air. Do not use water or other liquids or foam.</i>		



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SECTION V REACTIVITY DATA

Stability	Unstable		Conditions to avoid: <i>not applicable</i>
	Stable	X	
Incompatibility (Materials to Avoid): <i>not applicable</i>			
Hazardous Decomposition of Byproducts: <i>None, cut wire shot will progressively break down into smaller particles and finally turn to dust during normal use.</i>			
Hazardous Polymerization	May Occur		Conditions to avoid: <i>not applicable</i>
	Will not Occur	X	

SECTION VI HEALTH HAZARD DATA

Threshold limit values: *Permissible exposure limits – see Section II*

Carcinogenicity: *OSHA, not listed. IARC, Chromium (VI) – carcinogenic to humans (Group 1), metallic chromium and chromium (III) compounds – not classifiable as to their carcinogenicity to humans (Group 3); nickel compounds are carcinogenic to humans, metallic nickel is possibly carcinogenic to humans (Group 2B). Stainless cut wire peening media made respectively thereof is not reported to be carcinogenic.*

Health Hazards (Acute and Chronic): *Over exposure to dust and fumes may cause mouth, eye and nose irritation. Prolonged over exposure to manganese dust or fumes effects the central nervous system. Chronic over exposure can cause manganese poisoning. Prolonged over exposure to iron oxide fume can cause siderosis or “iron pigmentation” of the lung. It can be seen on a chest X-ray but causes little or no disability.*

Signs and Symptoms of Exposure: *In the case of manganese poisoning attendant apathy, loss of appetite, uncontrolled laughter, insomnia followed by sleepiness, headache, difficulty in walking, frequent falling, tremors, salivation, sweating and mental detachment.*

Target Organs: *Lung for chromium and lung and nasal passage for nickel.*

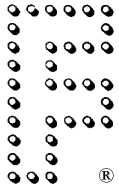
Route(s) of Entry: *Dust from use may be inhaled or shot and/or dust particles may enter the eyes due to improper ventilation or operator error.*

Emergency and First Aid Procedures: *If dust is inhaled move out of area and into fresh air. Should dust or cut wire particles come into contact with the eyes, flush the affected eyes with running water and have any remaining particles removed from the eyes by a qualified medical person.*

SECTION VII PRECAUTIONS for SAFE HANDLING and USE

Steps to Be Taken in Case Material is Released or Spilled: *Stainless cut wire shot peening media spilled or leaked onto floors can create hazardous walking conditions. No special precautions need to be followed when cleaning up spills or leaks of stainless cut wire shot peening media. Spilled material should be swept up and returned to its container for reuse or disposed of as a non-hazardous solid waste.*

Waste Disposal Method: *Stainless cut wire shot peening media is non-hazardous and can be disposed of as a non-hazardous solid waste.*



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SECTION VII	PRECAUTIONS for SAFE HANDLING and USE	<i>continued from page 2</i>
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Precautions to Be Taken in Handling and Storing: *No special precautions need to be followed when handling stainless cut wire shot peening media.*

Other Precautions: *A NIOSH approved respirator should be used in the handling of dust created from the use of cut wire peening media or when the concentration of nuisance-dust outside the shot machine exceeds ACGIH TLV's and OSHA PEL's indicated in Section II.*

SECTION VIII	CONTROL MEASURES
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Ventilation: *General ventilation and local exhaust should be provided and adequate to maintain dust levels below the ACGIH TLV's and OSHA PEL's indicated in Section II.*

Respiratory Protection: *A NIOSH approved respirator should be worn when the concentration of nuisance-dust outside the shot machine exceeds ACGIH TLV's and OSHA PEL's indicated in Section II.*

Eye Protection: *ANSI approved safety glasses with side shields should be worn.*

Other Protective Clothing or Equipment: *none required*

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