Material Safety Data Sheet

	Section 1- PRODUCT IDENTIFICATION	
Material Synonyms	PRE-PAINT, QC COATING	WHMIS Class NONE
Manufacturer Telephone No.	Material Use Manufacture of steel articles	MANUFACTURED ARTICLE

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		Section 2	- HAZARDOUS	INGREDIENTS		
Hazardous Ingredients Weight %		CAS No.	LD50	Exposure Limit (mg/m		
Steel:					mayor and a mine (mg/m	
	Iron (Fe)	~ 95	7439-89-6	30 g/kg (rat-oral)	5 (Fume)	
	Manganese (Mn)	≤ 1.65	7439-96-5	9 g/kg (rat-oral)	0.2	
	Chromium (Cr)	≤ 1.1	7440-47-3	U	0.5	
	Nickel (Ni)	≤ 0.12	7440-02-0	U	1.5	
	(Hazardous Ingredients	s - lists components wh	ich meet the reporti	ng requirements of the Ha	zardous Products Act.)	
SUBSTR	RATE					
	Galvanized Sheet Steel					
	Zinc (Zn)	99	7440-66-6	U	5 (Fume)	
	(Z-coating. Coating	weights range from 1	5 to 500 g/m ² or u	p to 20% total steel wei	ght)	
2.	Galvanneal Sheet Steel					
	Zinc (Zn)	88	7440-66-6	U	5 (Fume)	
	Iron (Fe)	11	7439-89-6	U	5 (Fume)	
	(Annealed Z-coating.	Coating weights ran	nge from 20 to 100	g/m ² or up to 10% tota	steel weight)	
3.	Galvalume					
	Aluminum (Al)	55	7429-90-5	U	10	
	Zinc (Zn)	43	7440-66-6	Ŭ	5 (Fume)	
	(AZ-coating, Coating	weights range from	50 to 150 a/m ² or	up to 15% total steel we		
4.	Cold Rolled Sheet Stee		or to too gill of	ap to 10 /0 total steel We	signit/	
	(No Coating applied)	••				

PRE-PAINT COATINGS:

(Constitutes less than 0.5% of total weight. Coating 1 to 8 mil thick. Color as Customer Specified)

- 5. Polyester Paint Coatings Dusts generated during mechanical abrasion (grinding, buffing, etc.) of the cured polyester coating would be considered nuisance particulate. Thermal decomposition products of the cured coating will yield small quantities of carbon monoxide, carbon dioxide and acetaldehyde at temperatures above 1000 ⁰ C (i.e. welding or thermal cutting operations). Prolonged exposure to temperatures of about 300 ⁰ C will yield mainly acetaldehyde and smaller quantities of carbon oxides (i.e. smouldering type fire).
- 6. Polyvinyl Chloride Resin Polymer (Plasitisol) Dusts generated during mechanical abrasion (grinding, buffing, etc.) of the cured PVC coating would be considered nuisance particulate. Thermal decomposition products of the cured PVC coating will yield small quantities of hydrogen chloride, carbon monoxide, carbon dioxide and mixed hydrocarbons at temperatures of 300 to 600 °C. At temperatures above 600 °C thermal decomposition products will include small quantities of the above compounds and large quantities of smoke and/or soot.

Note: These products do not contain and are not manufactured with any Class I or Class II ozone depleting substances.

These products meet the Coalition of North Eastern governors' (CONEG) requirements for combined heavy metal content of less than 100 ppm.

Legend: U = Unknown NA = Not Applicable

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Material: PRE-PAINTED SHEET STEEL

Section 3 - PHYSICAL DATA

Section 4 - FIRE AND EXPLOSION DATA

Metallic Solid - Color as Customer Specified

Boiling Pt. (°C) - N.A. Melting Pt. (°C) - 1530 Specific Gravity - 7.5 to 8 Non - Flammable. Will not support combustion

Section 5 - REACTIVITY DATA

Stable: Contact with strong mineral acids will release flammable hydrogen gas

Section 6 - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY

None in its natural state. Operations such as welding, burning, grinding or machining may pose acute or chronic inhalation health effects.

EFFECTS OF ACUTE EXPOSURE

None to sheet steel. Grinding or machining can generate paint dusts, metal particulate or elemental oxide fumes. Welding or thermal cutting operations may generate metal particulate, elemental metal oxides and paint coating decomposition products listed in Section 2. May cause irritation of the nose, throat and lungs. Inhalation overexposure to zinc oxide fume may cause "metal fume fever" characterized by fever and chills (i.e., flu-like symptoms).

EFFECTS OF CHRONIC EXPOSURE

None to sheet steel. Chronic inhalation overexposure to metal fume (i.e., iron oxide fume) may cause a benign pneumoconiosis (i.e., siderosis) with few or no symptoms.

IRRITANCY None Carcinogenicity- Chromium and Nickel (See Additional Information)
Reproductive, Teratogenicity, Mutagenicity – no known effects

SYNERGISTIC MATERIALS

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Section 7 - PREVENTATIVE MEASURES

Dependent upon the process being performed on the sheet steel material.

Each operation must be addressed for suitable personal protective equipment required.

General ventilation is normally adequate. Welding requires local exhaust ventilation or fume filter respirator, gloves and eyewear. Avoid prolonged or repeated skin contact.

Section 8 - FIRST AID MEASURES

Eyes - Flush with water

Skin - Wash contact areas with soap and water

Inhalation - For overexposure to metal fume, remove person to fresh air. Seek medical attention.

ADDITIONAL INFORMATION

IARC lists certain hexavalent chromium compounds under its Group 1 - "Confirmed Human Carcinogen". IARC lists certain nickel compounds under its Group 2A - "Suspected Human Carcinogen". Welding fume may also contain contaminants from fluxes and / or other welding consumables. Paint coatings should be removed prior to welding or grinding to minimize smoke generation.

Section 9 – PREPARATION DATE					
PREPARED BY Cascadia Metals	PHONE	DATE PREPARED			
TOTOGGIE MOGIS	(604) 946 - 3890	July 1, 2013			

Legend: U = Unknown NA = Not Applicable

STEEL

ACIER

REFER TO MATERIAL SAFETY DATA SHEET



CONSULTER LA FICHE SIGNALETIQUE

Overexposure to dusts or fumes generated during welding or burning steels, particularly those containing chromium or nickel, may cause respiratory disease.

High exposure to fumes during welding or burning of zinc coated products can cause reversible short-term flu-like symptoms.

Prolonged skin contact with coated steel may cause skin irritation in sensitive individuals.

LIMIT inhalation of dusts or fumes generated during processing.

LIMIT skin contact.

Overexposure to metal fumes: Move to fresh air. Seek medical attention if necessary

Skin contact: Wash with soap and water.

Read the relevant Material Safety Data Sheet for more information La surexposition aux poussieres ou aux fumees generees lors du soudage, surtout des aciers contentant du chrome ou du nickel, pourrait provoquer des maladies respiratoires.

Une exposition intensive aux fumees lors du soudage des produits revetus de zinc pourrait provoquer a court terme des symptomes reversibles de grippe.

Le contact avec la peau et les aciers revetus pourrait provoquer une irritation de la peau chez certains individus.

LIMITER L'inhalation des poussieres ou des fumees generees pendant la transformation.

LIMITER Le contact avec la peau Si l'individu est surexpose aux fumees venant des metaux, emmenez la personne pour qu'elle puisse avoir de l'air frais. Demandez des soins medicaux si necessaire.

S'il y a contact avec la peau, lavez la peau a l'eau et au savon.

Veuillez consulter la fiche signaletique pertinente pour plus de renseignements.

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