Supplier for: EB Metal Inc R

International Material Data System (IMDS).

Material Safety Data Sheet ZINC COATED SHEET STEEL

Arcel	orMittal			ZINC	COATED SHEET STE
			PRODUCT IDEN	TIFICATION	
Material Synonyms		ZINC COATED SHEET S			WHMIS Class
		Galvanized, Galvanneal, C ArcelorMittal Dofasco Inc.			D2A, D2B
Manut	facturer	L8N 3J5	, Р.О. ВОХ 2460, П	amilton, Ontario, Cariada	-
Gener	al Information:	1-905-548-7200 x 2959			(T)
Emergency Contact:		1-760-476-3962	Material Use	Manufacture of steel	\odot
	-	Company Code: 333211		articles	61.0 - 2.47.0 J
		Section 2 –	HAZARDOUS IN	IGREDIENTS	•
	dous Ingredient	s Weight %	CAS No.	LD50 Exp	oosure Limit (mg/m³)
Steel:					- <i>(</i> -)
	Iron (Fe)	~ 95	7439-89-6	30 g/kg (rat-oral)	5 (Fume)
	Manganese (Mn)		7439-96-5	9 g/kg (rat-oral)	0.2
	Chromium (Cr)	≤ 1.1	7440-47-3	Unknown	0.5
	Nickel (Ni)	≤ 0.12	7440-02-0	Unknown	1.5
	(Hazardous Ingre	dients – lists components whic	h meet the reporting	requirements of the Hazardous	Products Act.)
Coating		, .			
1.	Galvanized	99	7440-66-6	Linknown	E (Eumo)
	Zinc (Zn)			Unknown de or up to 20% total steel v	5 (Fume)
	Let coaling. Cl	ating weights range hull 13		100 01 up 10 20 /0 101al SIEEL	weight)
2.	Galvanneal				
	Zinc (Zn)	88	7440-66-6	Unknown	5 (Fume)
	Iron (Fe)	11	7439-89-6	Unknown	5 (Fume)
	(Annealed Zn-F	e coating: Coating weights	range from 20 to 1	00 g/m ² per side or up to 10	% total steel weight)
3.	Galvalume, Galva	alume Plus			
	Aluminum (Al)	55	7429-90-5	Unknown	10
	Zinc (Zn)	43	7440-66-6	Unknown	5 (Fume)
	(AI-Zn coating:	Coating weights range from	n 50 to 150 g/m² pe	r side or up to 15% total ste	el)
Surface	e Treatments:				
Junaou		s than 0.5% of total steel we	eight)		
				m residual of 11 to 27mg/m	2 per side. Chromate
				hexavalent chromium as a	
	coating. In	these cases, the actual con	centration of hexav	alent chromium present var	ies with steel gauge ar
				reatment (E-Passivation) is	
				er Ferrocote 61-AUS, PL-71	
				ng oils containing sulphonate	
			al oil and isoparaffi	n petroleum distillate. Oil Co	pating weights range
		5.4 g/m2 per side.			
				White petroleum mineral oil	
			C4648) Acrylic resir	n - chromium co-polymer of	polystyrene-acrylate
	0	2-27 mg/m2 per side.	Phoenhata colutio	n leaving a total phasehota	residual of 0.2 to 1.5
			- Phosphate solution	on leaving a total phosphate	residual 01 0.3 (0 1.5
	y/11 (20 l0	140 mg/n <i>)</i> .			
Note:		or surface treatment oils are av		elorMittal Dofasco Technical So	
				with any Class I or Class II oz	
				irements of the Global Automo //53EC). Dofasco non-passivat	
				Cadmium, Lead and Hexaval	
				trical and Electronic Equipmen	
				95/EC). All automotive produc	
	2002/96/EC), Rest tional Material Data		es (RoHS) List (2000/	95/EC). All automotive produc	ts are listed within



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Sect	ion 3 – PHYSICAL DATA	Section 4 – FIRE AN	ID EXPLOSION DATA					
Silver Grey Metalli		Non – Flammable. Will not support combustion						
Boiling Pt. (°C) – N Melting Pt. (°C) - 1	lot applicable	Section 5 – REACTIVITY DATA						
Melting Pt. (°C) - 1 Specific Gravity - 7	530 7.5 to 8	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. Skin or eye contact with coating oils may cause irritation with prolonged or repeated contact.								
EFFECTS OF ACUTE EXPOSURE None to sheet steel. Welding, burning, grinding or machining can generate metal particulate or elemental oxide fumes. Inhalation overexposure to manganese fume has been reported to cause "metal fume fever" characterized by fever and chills (i.e., flu-like symptoms). Such an overexposure is unlikely due to the small amount of manganese available. Fumes or mists of surface treatment oils may irritate the eyes and upper respiratory tract, and cause headache, dizziness and / or nausea if exposure is excessive.								
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. Repeated or prolonged contact to coating oils may cause skin irritation and dermatitis. The health hazards associated with exposure to chromium are dependent upon its oxidation state. The metal form of chromium as it exists in this product is of very low toxicity. The hexavalent form is very toxic. Repeated or prolonged exposure to hexavalent chromium compounds may cause respiratory irritation, nosebleed, ulceration and perforation of the nasal septum. Industrial exposure to certain forms of hexavalent chromium has been related to increased incidence of cancer.								
		Nickel (See Additional Information) utagenicity – no known effects	SYNERGISTIC MATERIALS Unknown					
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, launder oil-contaminated clothing. Use oil impervious gloves if required to prevent contact. Avoid eye contact with oil contaminated hands.								
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. Oil coatings should be removed prior to welding or grinding to minimize smoke generation.								
	Section 9 – PR	EPARATION DATE						
PREPARED BY Health and Safety D	epartment	PHONE (905) 548-7200 Ext. 2595	DATE PREPARED January 20, 2010					





REFER TO MATERIAL SAFETY DATA SHEET



CONSULTER LA FICHE SIGNALÉTIQUE

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



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La surexposition aux poussières ou aux fumées générées lors du soudage ou brûlure des aciers, en particulier ceux contenant du chrome ou de nickel, pourrait causer des maladies respiratoires.

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

Un contact prolongé avec de l'acier revêtu pourrait provoquer une irritation cutanée chez les personnes sensibles.

LIMITER l'inhalation des poussières ou des fumees generees pendant le traitement.

LIMITER Le contact avec la peau.

Si l'individu est surexposé aux fumées venant des metaux, emmenez la personne Demandez des soins au grand air. médicaux si necessaire.

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

signalétique Lire la fiche pour plus d'information.

ArcelorMittal Dofasco Inc., P.O. Box 2460. Hamilton, Ontario L8N 3J5 1-905-548-7200 1-800-DOFASCO Emergency Contact: 1-760-476-3962, Company Code: 333211