- MATERIAL SAFETY DATA SHEET -
- FICHE DE DONNEES DE SECURITE -

IDENTIFICATION

Trade name / Désignation commerciale : **Chrome Coated shafting (chrome induction)**

Manufacturer / Fournisseur : **Enduro-Niagara Ltd**

Material use / Type d'utilisation : Hydraulic Indrustie,

INGREDIENTS
(See Attachment)

MATERIAL OR COMPONENTS / MATIERE OU COMPOSANT

Iron		Cobalt			
Carbon		Copper			
Chromium		Tin			
Nickel		Silicon			
Aluminum		Sulphur			
Molybdenum		Phosphorus			
Vanadium		Manganese			

PHYSICAL PROPERTIES / PROPRIETES PHYSIQUES

PHYSICAL STATE / ETAT PHYSIQUE : Solid/Solide ❑ Liquid/Liquide ❑ Gas/Gaz ❑

Solubility in water / Solubilté dans l'eau : N/A	Molecular weight (calculated) / Masse volumique (calculée) N/A
Appearance & odour / Apparence et odeur : Solid with bright metallic luster	
Melting point / Point de fusion : N/A	Freezing point / Température de congélation : N/A

FIRE & EXPLOSION HAZARD / RISQUE D'INCENDIE & D'EXPLOSION

Flash point / Point éclair : N/A	Autoignition temperature / Température d'autoinflammation : N /A

Flamable limits / Limites d'inflammabilité :
Lower / Basse : N/A Upper / Haute : N/A

Extinguishing ways / Moyens d'extinction : N/A

Water spray/Eau vaporisée		CO^2		Sand / Sable	
Water log/Eau en masse		Dry chemical / Produit chimique sec		Earth / Terre	
Water stream/Eau pression		Alcohol foam / Mousse d'alcool			

Special procedures / Procédures spéciales :

REACTIVITY DATA / DONNEES SUR LA REACTIVITE

Chemical stability / Stabilité chimique:
Yes / Oui ❑ No / Non ❑

Instability conditions / Conditions d'instabilité :

Incompatibility with other substances / Incompatibilité avec d'autres substances :

Strong acids / Acides durs	X	Strong oxidizers / Oxydants durs	X
Strong alkalis / Alcalis durs		Reducers / Réducteurs	
Water / Eau		None / Aucun	

Other / Autre : .....

Conditions to avoid / Conditions à éviter :

Heat / Chaleur		Sparks / Etincelles	
Flames / Flammes		Ignition source / Source d'inflammation	
None / Aucune		Other / Autre	

STORAGE & SHIPPING / STOCKAGE & EXPEDITION	Storage requirements / Conditions de stockage : mini : N/A Maxi : N/A Handling procedures & equipements / Méthodes & équipements de manutention : N/A
	Special shipping informations / Renseignements spéciaux pour l'expédition : N/A
TOXICO-LOGICAL PROPERTIES / PROPRIETES **TOXICO-LOGIQUES**	<u>Ingestion</u> : Acute / Pénétrante : Chronic / Chronique :
	Dermal / Dermique (hand/main) : Sensitizer/ Defalter/ None/ Other/ Irritant* Corrosive Sensitive Allergie Aucun Autre Acute / Pénétrante ---❑----------❑----------❑----------❑----------❑..... Chronic / Chronique -❑----------❑----------❑----------❑----------❑.....
	Eye / Oeil : Severe irritant/ Mild irritant/ Corrosive None/ Other/ Irritant sévère Irritant moyen Corrosif Aucun Autre Acute / Pénétrante ------❑----------❑----------❑----------❑-----..... Chronic / Chronique ----❑----------❑----------❑----------❑-----.....
	Inhalation : Allergen/ Sensitizer/ Carcinogen/ Irritant Allergie Asphyxiant Sensitif Cancérigène* Acute / Pénétrante ---❑----------❑----------❑----------❑----------x----------➢ Chronic / Chronique -❑----------❑----------❑----------❑----------x----------➢ Narcotic effect/ Cyanosis/ None/ Other/ Effet narcotique Cyanosique Aucun Autre ----------➢--------❑----------❑----------❑-------..... ----------➢--------❑----------❑----------❑--------.....
	<u>Systemics / Organisme</u> : Acute / Pénétrante : Potential carcinogen Chronic / Chronique : Potential carcinogen Other toxic effects / Autres effets toxiques :
FIRST AID MEASURES / PREMIERS SOINS	Ingestion : Eye / Oeil : Dermal / Dermique : Inhalation : Remove to fresh air, seek medical aid immediately. Other / Autres :
PROTECTION	Eye / Oeil : Dermal / Dermique : Inhalation : NIOSH approved fume and dust respirator is recommended when welding, burning, polishing or grinding and should be used if TLV's are exceeded. Other / Autre :
SPECIAL	

Established on / Etablie le : .....March 1 2003..... by / par.....Enduro–Niagara . - .John Pentesco.... Adress / Adresse : ....4750 Christie Dr, Beamsville On Canada Phone/Tel : 905-563-4951 Fax : 905-563-7205	For more informations, ask for material data sheets established by components / Pour plus de renseignement, demandez les fiches de données de sécurité par composant

ATTACHMENT

SECTION II - HAZARDOUS INGREDIENTS

All steel products are alloys which consist primarily of iron (generally >95%). However, other elements which are either added intentionally or present as contaminants or residuals may also occur in these products at trace or low concentrations (generally <5.0%). These elements may include the following :

Chemical	Symbol	C.A.S. No.	Max. %/wt.		ACGIH TLV	
Aluminum	(Al)	7429-90-5	.045	fume	5	mg/M^3
Antimony	(Sb)	7440-36-0	.004		.5	mg/M^3**
Arsenic	(As)	7440-38-2	.009		.01	mg/M^3**
Boron	(B)	1303-86-2	.003	fume	10	mg/M^3
Cadmium	(Cd)	1306-19-0	.002	fume	.05	mg/M^3**
Calcium	(Ca)	1305-78-8	.002	fume	2	mg/M^3
Carbon	(C)	7440-44-0	.84	fume	55	mg/M^3
Chromium	(Cr)	7740-47-3	1.10		.5	mg/M^3*
Cobalt	(Co)	7440-48-4	.011	fume	.1	mg/M^3
Copper	(Cu)	7440-50-8	.55	fume	.2	mg/M^3
Lead	(Pb)	7439-92-1	.027	fume	.05	mg/M^3
Manganese	(Mn)	7439-96-5	1.75	fume	1	mg/M^3
Molybdenum	(Mo)	7439-98-7	.25		10	mg/M^3
Nickel	(Ni)	7440-02-0	.30		1	mg/M^3*
Phosphorus	(P)	7723-14-0	.035		.1	mg/M^3
Silicon	(Si)	7440-21-3	.60		10	mg/M^3
Sulfur	(S)	7446-09-5	.13	fume	SO_2	5 mg/M^3
Tin	(Sn)	7440-31-5	.045	fume	2	mg/M^3
Titanium	(Ti)	13463-67-7	.005	fume	10	mg/M^3
Vanadium	(V)	1314-62-1	.25	fume	.05	mg/M^3

* Recognized to have human carcinogenic or cocarcinogenic potential.
** Suspect of carcinogenic potential for man.

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