

	SECTION I-PRODUC	CT IDENTIFICATION	
MATERIAL	COLD ROLLED SHEE	ET STEEL	
SYNONYMS	Cold Rolled,Carbon Sheet Steel ,CR		
MANUFACTURER	Borçelik Çelik Sanayii Ticaret A.Ş. / Gemlik-BURSA TURKEY		
	90 224-280 40 00	MATERIAL USE Manufacture of steel products	

SECTION II-HAZARDOUS INGREDIENTS (1) STEEL (2) COATING (3) SURFACE TREATMENTS				
HAZARDOUS INGREDIENTS	%WT.	CAS NO.	LD ₅₀	EXPOSURE LIMIT (mg/m³
(1) <u>Steel</u> :				
Iron (Fe)	~ 95	7439-89-6	30 g/kg (rat-oral)	5 (Fume)
Manganese (Mn)	≤ 2.0	7439-96-5	9 g/kg (rat-oral)	1 (Fume)
Chromlum (Cr)	≤ 1.25	7440-47-3	Ù	0,5
Nickel (Ni)	≤ 0.75	7440-02-0	U	1
Lead (Pb)	< 0,003	7439-92-1	U	0,15
Mercury (Hg)	< 0,001	7439-97-6	U	0.1
Cadmium (Cd)	< 0,001	7440-43-0	225 mg/kg (rat-oral)	•
Hexavalent Chromium (Cr6+)	< 0,001	N.A.	Ü	0,05

(2) Coating (No coatings applied)

(3) Surface Treatments:(constitute less than 0,15 % of total steel weight)

a-Oils (Ferrocoat N 6888 LV, SRP 109)

Mineral oil with additives

Oil Coating weights range from 0,25 to 3 g/m² per side.

b-Wet temper fluid (QWERL N-275-2)

A 5.0 % solution in water

NOTE:

Supplier MSDS on the surface treatment oils are available. They can be obtained on written reguest to our Customer Service Department.

Borçelik Çelik Sanayii Ticaret A.Ş. products do not contain and are not manufactured with any Class I or Class II ozone depleting substances.

egend:	U=Unkown	N A -Not	Annlicable

	PREPARATION DATA			
Prepared by	PHONE	FAX	DATE	PAGE
Borçelik Çelik San.Tic. A.ş.	90 224 280 40 00	90 224 519 01 30	25.03.2002	1/2

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COLD ROLLED SHEET STEEL

SECTION HI-PHYSICAL DATA

Silver Grey Metalic Solid Boiling Pt.(°C) - N.A. Melting Pt. (°C) - 1530 Specific Gravity - 7.5 to 8



SECTION IV- FIRE AND EXPLOSION DATA

Non-Flammable - will not support combustion

SECTION V- REACTIVITY DATA

Stable : Contact with strong acids will relese flammable hydrogen gas

SECTION VI- TOXILOGICAL 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. Welding, burning, grinding or machining can generate metal particulate or elemental oxide fumes. Inhalation overexposure to manganese has been reported to cause "metal fume fever" characterized by fever and chills (ie flu-like symptoms). Such an overexposure is unlikely due to the small amount of manganese available.

Fumes or mist of surface treatment oils may irritate the eyes and upper respiralory tract, and cause headache, dizziness and/or nausea if exposure is excessive. Repeated or polonged contact to oils may cause skin irriation and dermatitis.

EFFECTS OF CHRONIC EXPOSURE

None to sheet steel. Chronic inhalation overexposure to metal fume (ie. Iron oxide fume) may cause a benign pneum oconiosis (ie. Siderosis) with few or no symptomps.

Carcinoganicity,Reproductive, Teratogenicly, Mutagenicity effects Chromium&Nickel (see additional information)	SYNERGISTIC MATERIALS U

SECTION VII- PREVENTIVE MEASURES

Dependent upon the process being performed on the 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 eyeware. Avoid prolonged/repeated skin contact. Use oil impervious gloves if required to prevent contact. Avoid eye contact with oil contaminated hands.

SECTION VIII- 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

ARC lists certain hexavalent chromium compounds under its group 1-"Confirmed human Carcinogen" ARC lists certain nickel compounds under its Group 2A-"Suspected Human Carcinogen" Nitrosamines may be formed due to a reaction between nitrites and amines, of which some are suspected numan carcinogens.

Oil coatings should be removed prior to welding or grinding to minimize smoke generation.

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