

# MATERIAL SAFETY DATA SHEET

**TRADE NAME (Common Name or Synonym)**  
**Barre d'acier recouverte de chrome (induction)**
**CHEMICAL NAME**  
**Chrome Plated 1045, 1050**

## I. INGREDIENTS

Material or Component	CAS Number	% Weight	EXPOSURE LIMITS	
			OSHA PEL (mg/m <sup>3</sup> )	ACGIH TLV (mg/m <sup>3</sup> )
Base Metal Fer (Fe)	7439-89-6	95-99	10 (Oxide Fume)	5 (As Iron Oxide)
Alloying Elements				
Aluminum (Al)	7429-90-5	<2	15 Dust	10 (Dust)
Carbone (C)	7440-44-0	<2	N/A	3,5 AS Carbon Black
Manganese (Mn)	7439-96-5	<2	5	5 (Dust Ceiling)
Bismuth (Bi)	7440-69-9	<1	N/A	N/A
Chrome (Cr)	7440-47-3	<1	1 (Cr. & insol. salts)	.5
Cuivre (Cu)	7440-50-8	<1	0,2	1 (Dust & Mist)
Molybdenum (Mo)	7439-98-7	<1	5	10 (insol. salts)
Nickel (Ni)	7440-02-0	<1	1.0	1,0
Niobium (Nb)	7440-03-1	<1	N/A	N/A
Phosphore (P)	7723-14-0	<1	0,1 (as yellow Phos.)	N/A
Silice (Si)	7440-21-3	<1	15 Dust	10 Total Dust
Souffre (S)	7704-34-9	<1	13 (as SO <sub>2</sub> )	5 (as SO <sub>2</sub> )
Vanadium (V)	7440-62-2	<1	0,05 (V <sub>2</sub> O <sub>5</sub> dust & fume)	0,5 (V <sub>2</sub> O <sub>5</sub> ) dust & fume)
Metallic Coating Chromium (Cr)	7440-47-3	>98	1 (Cr. & insol. salts)	0,5

NOTE: The above listing is a summary of elements used in alloying steel. Various grades of steel will contain different combinations of these elements. Trace elements may also be present in minute amounts. No permissible exposure limits (PEL) or thresholds limit values (TLV) exist for steel. Values shown are applicable to component elements.

## II. PHYSICAL DATA

<b>MATERIAL IS (At Normal Conditions)</b> <input type="checkbox"/> LIQUID <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> GAS <input type="checkbox"/> OTHER		<b>Apparence et odeur :</b> D'apparence solide avec odeur metallique	<b>% VOLATILE BY VOLUME:</b> N/A	<b>VAPOR DENSITY</b> N/A
<b>ACIDITY/ALKALINITY</b> pH = N/A	<b>Point de fusion :</b> Greater than 1600 °F <b>Boiling Point</b> N/A      °F	<b>Specific Gravity (H<sub>2</sub>O = 1)</b> Approx. 7 <b>Solubilité dans l'eau :</b> (% by weight) N/A	<b>VAPOR PRESSURE</b> (mm Hg at 20°C) N/A	

## III. PERSONAL PROTECTIVE EQUIPMENT

<b>RESPIRATORY PROTECTION</b> Appropriate dust/mist/fume respirator should be used to avoid excessive inhalation of particulates. If exposure limits are reached or exceeded, use NIOSH approved equipment.	<b>HANDS, ARMS AND BODY</b> Appropriate gloves should be worn as required for welding, burning or handling operations.
<b>EYES AND FACE</b> Safety glasses should be worn when grinding or cutting. Face shields should be worn when welding or cutting.	<b>OTHER CLOTHING AND EQUIPMENT</b> As required depending on operations and safety codes.

## IV. EMERGENCY MEDICAL PROCEDURES

<b>INHALATION:</b> <b>EYE CONTACT:</b> <b>SKIN CONTACT:</b> <b>INGESTION:</b>	Remove to fresh air; if condition continues, consult a physician. Flush thoroughly with running water to remove particulate; obtain medical attention. Remove particles by washing thoroughly with soap and water. Seek medical attention if condition persists. If significant amounts of metal are ingested, consult physician.
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