



## Material Safety Data Sheet

### SECTION I – COMPANY AND PRODUCT IDENTIFICATION

Issue Date: 10/04/06

Reviewed: 08/24/10

**Company:** Wear –Concepts Inc.  
2845 E. Heartland Drive  
Liberty, MO 64068

**Telephone Number:** 816-587-1923  
**Emergency Telephone Number:** 800-424-9300  
**Internet:** www.wearcon.com

**Product Name:** Wear-Con WC700 Chrome Carbide Overlay Plate – Includes all sheet plate, strip products

### SECTION II – INGREDIENTS/HAZARD INFORMATION

COMPONENT	CAS NUMBER	TLV ACGIH (mg/m <sup>3</sup> )	CARBON & H.S.L.A. STEELS	LEADED & LOW ALLOY STEELS	HIGH ALLOY STEEL
IRON	7438-89-6	5	91-99	92-96	63
MANGANESE	7439-96-5	5	<2.0	<2.2	<1.9
CHROMIUM	7440-47-3	0.5	<0.1	<1.7	<28
NICKEL	7440-02-0	1	<1.0	<2.1	--
COPPER	7440-50-8	1	<1.0	--	--
PHOSPHOROUS	7732-14-0	0.1	<1.25	--	--
MOLYBDENUM	7439-9807	10	--	--	<.9
LEAD	7439-92-1	0.15	--	<0.35	--
CARBON					<4.2

### SECTION III – HAZARDS IDENTIFICATION

Health: 2                      Flammability: 0                      Reactivity: 1

**Primary Routes of Entry:** skin contact and inhalation.

**Carcinogen:** The International Agency for Research on Cancer (IARC) lists certain hexavalent chromium compounds under Group 1 category “confirmed human carcinogen” and nickel and certain nickel compounds under Group 2A category “suspected human carcinogen”.

#### Effects of Overexposure:

Skin: Prolonged Contact with coated steel may cause skin irritation in sensitive individuals.

Inhalation: Chronic inhalation overexposure to metal fume (iron oxide fume) may cause a benign pneumoconiosis (siderosis) with few or no symptoms. Chronic inhalation of lead fumes may cause lead poisoning which can affect the digestive system, nervous system, muscles and joints. Inhalation overexposure to manganese, copper or zink (coated products) may cause metal fume fever characterized by fever and chills (i.e. flu-like symptoms) appears 4-6 hours after exposure with no long term effects.

### SECTION IV – FIRST AID MEASURES

Skin: Maintain good personal hygiene. Wash with soap and water. Seek medical attention if irritation persists.

Inhalation: Remove to fresh air. Seek medical attention if necessary.

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## SECTION V – FIRE-FIGHTING MEASURES

**Flash Point (method used):** None

**Extinguishing Media:** Carbon Dioxide, dry chemical, “alcohol” foam or water fog

## SECTION VI – ACCIDENTAL RELEASE MEASURES

None.

## SECTION VII – HANDLING AND STORAGE

None.

## SECTION VIII – PERSONAL PROTECTION

**Respiratory Protection:** All workers and bystanders must be protected from over exposure. Avoid breathing vapors. During welding and grinding operations, use NIOSH/MSHA approved mechanical filter respirator to remove solid airborne particles of dust.

**Engineering Controls:** General or local exhaust ventilation during welding and grinding.

## SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** N/A

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Solubility in Water:** N/A

**Appearance & Odor:** Silver Grey Metallic (Steel)

**Specific Gravity:** N/F

**Volatiles By Volume (%):** N/A

**Evaporation Rate (butyl acetate=1):** N/A

**Melting Point (°F):** N/A

## SECTION X – STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions of Reactivity:** N/A

**Incompatibility:** Avoid contact with mineral acids, will release hydrogen gas.

**Hazardous Decomposition Products:** N/A

## SECTION XI – TOXICOLOGICAL INFORMATION

Chronic inhalation overexposure to metal fume (iron oxide fume) may cause a benign pneumoconiosis (siderosis) with few or no symptoms. Chronic inhalation of lead fumes may cause lead poisoning which can affect the digestive system, nervous system, muscles and joints. Inhalation overexposure to manganese, copper or zinc (coated products) may cause metal fume fever characterized by fever and chills (i.e. flu-like symptoms) appears 4-6 hours after exposure with no long term effects.

## SECTION XII – ECOLOGICAL INFORMATION

No information available

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SECTION XIII – DISPOSAL CONSIDERATIONS

N/A

SECTION XIV – TRANSPORTATION INFORMATION

N/A

SECTION XV – REGULATORY INFORMATION

This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

This information contained herein is based on data believed by WEAR CONCEPTS to be accurate, but we do not assume any liability for the accuracy of this information. We neither suggest nor guarantee that any hazards mentioned are the only ones that exist. Anyone intending to rely on any recommendation or to use any equipment, technique or material mentioned should be also satisfy himself that he can meet all applicable safety and health standards.