

BUCYRUS BLADES, Inc.
MATERIAL SAFETY DATA SHEET

JAN 11 1990

MANUFACTURER:
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PREPARED: May 19, 1986

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PRODUCT IDENTIFICATION
90 JAN 2 1990
UNIVERSITY OF WISCONSIN
WHITTEWATER
UNIVERSITY
ADDITIONAL SERVICE

PRODUCT NAME:
Carbon Steel

FORMULA: NA
CHEMICAL FAMILY: NA

RECEIVED
INGREDIENTS

	% Wt.	EXPOSURE LIMITS	
		OSHA Pel (mg/m ³)	ACGIH TLV (mg/m ³)
Iron	Balance	10 oxide fume	5 oxide fume
Carbon	.20 - .98	None established	None established
Manganese	.80 - 1.45	5 dust & fume	5 dust/1 fume
Phosphorus	.040 max	0.1 Phosphorus	0.1 Phosphorus
Sulfur	.050 max	13 Sulf. Dioxide	5 Sulf. Dioxide
Boron	.0005/.008	15 oxide fume	10 oxide fume
Silicon	.15/.30	None established	10 total dust

PHYSICAL DATA

Physical Form: Solid under normal conditions
Appearance & Odor: Gray-Black or Silver-Gray odorless metal
Melting Point: Approx. 2800°F

FIRE & EXPLOSION DATA

Steel Products in the solid state present no fire or explosion hazard.

REACTIVITY DATA

Stable under normal conditions of use, storage and transport. Will react with strong acid to liberate hydrogen. At temperatures above the melting point, may liberate fumes containing oxides of iron and alloying elements.

HEALTH HAZARD DATA

Steel Products under normal conditions do not present an inhalation, ingestion, or contact health hazard. However, operations such as burning and welding, which results in elevating the temperature to or above its melting point, may result in airborne particles which may present a health hazard.

SPILL OR LEAK PROCEDURES

Not applicable to steel in the solid state.

SPECIAL PROTECTION

Proper ventilation must be provided when welding & flame cutting. The dried paint contains no hazardous ingredients so that the ventilation required for welding & flame cutting will also suffice for the painted surface. Eye & skin protection must be provided for all machining operations.