

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)

Form Approved

OMB No. 1218-0072



IDENTITY (As Used on Label and List)
CARBON STEEL BALLS AND MEDIA

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name ABBOTT BALL COMPANY	Emergency Telephone Number
Address (Number, Street, City, State, and ZIP Code) RAILROAD PLACE	Telephone Number for Information (860) 236-5901
WEST HARTFORD, CT. 06110	Date Prepared 2/20/03
	Signature of Preparer (optional)

Section II -- Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Carbon	7440-44-0	15.0 mg/m ³		.13-.16
Manganese	7439-96-5	5.0 mg/m ³		.3-.6
Phosphorus	7723-14-0	0.1 mg/m ³		.03 max.
sulfur	7446-09-5	15.0 mg/m ³		.05 max.
silicon	7440-21-3	5 mg/m ³		trace
Aluminum	7429-90-5	15 mg/m ³		trace
Iron	7439-89-6	10.0 mg/m ³		balance

Section III -- Physical/Chemical Characteristics

Boiling Point N/A	Specific Gravity (H ₂ O = 1) 7.6 to 7.8
Vapor Pressure (mm Hg.) N/A	Melting Point 2800°F
Vapor Density (AIR = 1) N/A	Evaporation Rate (Butyl Acetate = 1) N/A
Solubility in Water N/A	

Appearance and Odor

Solid Oderless Grey Metal

Section IV -- Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media N/A			

Special Fire Fighting Procedures

Unusual Fire and Explosion Hazards

N/A

Section V — Reactivity Data

Stability	Unstable	X	Conditions to Avoid
	Stable		MAY REACT WITH ACIDS TO RELEASE HYDROGEN

Incompatibility (Materials to Avoid)

ACIDS

Hazardous Decomposition or Byproducts

FUMES AND/OR GASES PRODUCED FROM WELDING OR BURNING OPERATIONS

Hazardous Polymerization	May Occur	X	Conditions to Avoid
	Will Not Occur		

Section VI — Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?

EXPOSURE OCCURS PRIMARILY FROM INHALATION OF FUMES

Health Hazards (Acute and Chronic)

PLAIN CARBON STEEL ARE NOT GENERALLY CONSIDERED HAZARDOUS IN THE FORM SHIPPED, HOWEVER IF YOUR PROCESS INVOLVES GRINDING, MELTING, WELDING, CUTTING OR ANY OTHER PROCESS THAT CAUSES A RELEASE OF HAZARDOUS LEVELS OF FUMES OR DUST SEE ATTACHED SHEET.

Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?

NA

Signs and Symptoms of Exposure

SEE ADDITIONAL SHEET

Medical Conditions

Generally Aggravated by Exposure SEE ADDITIONAL SHEET

Emergency and First Aid Procedures

EYE: FLUSH WITH PLENTY OF WATER. SKIN: WASH CONTAMINATED AREA WITH SOAP AND WATER. INHALATION: MOVE TO FRESH AIR IF FUME EXPOSURE CAUSES IRRITATION. INGESTION: LARGE ENOUGH QUANTITIES TO CAUSE HEALTH EFFECTS IS UNLIKELY.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

PRODUCT IS A SOLID METAL AS SHIPPED, NO POTENTIAL FOR SPILL OR LEAK.

Waste Disposal Method

NA

Precautions to Be Taken in Handling and Storing

NA

Other Precautions

NA

Section VIII — Control Measures

Respiratory Protection (Specify Type)

NIOSH APPROVED FUME RESPIRATOR IF TORCH CUTTING OR WELDING IN POORLY VENTILATED AREA.

Ventilation	Local Exhaust	Special
	Mechanical (General)	
	TO LOWER TLV OF DUST OR FUME IF NEEDED	NA
	NA	NA

Protective Gloves: NA

Eye Protection

REQUIRED FOR GRINDING, WELDING ETC.

Other Protective Clothing or Equipment

Work Hygienic Practices

NA

SECTION VI.-HEALTH HAZARD (CONTINUED)

IRON OXIDE: REPEATED EXPOSURE TO IRON OXIDE FUME OVER A PERIOD OF YEARS MAY CAUSE X-RAY CHANGES OF THE LUNGS, BUT DOES NOT CAUSE THE EXPOSED PERSON TO BECOME ILL.

MANGANESE: INHALATION OF MANGANESE FUME MAY CAUSE "METAL FUME FEVER" WITH SYMPTOMS OF CHILLS, FEVER, NAUSEA, COUGH, DRY THROAT, WEAKNESS, MUSCLE ACHES, AND A SWEET OR METALLIC TASTE IN THE MOUTH. PROLONGED OR REPEATED EXPOSURE MAY AFFECT THE NERVOUS SYSTEM, WITH DIFFICULTY IN WALKING AND BALANCING, WEAKNESS OR CRAMPS IN THE LEGS, HOARSENESS OF THE VOICE, TROUBLE WITH MEMORY OR JUDGEMENT, UNSTABLE EMOTIONS OR UNUSUAL IRRITABILITY. THE RESPIRATORY SYSTEM MAY ALSO BE AFFECTED BY A PNEUMONIA LIKE ILLNESS WITH SYMPTOMS OF COUGHING, FEVER, CHILLS, BODY ACHE, CHEST PAIN, AND OTHER COMMON SIGNS OF PNEUMONIA.