

MATERIAL SAFETY DATA SHEET

Date: 2010/01/01 MSDS No. 762

SECTION 1: IDENTIFICATION

Manufacturer	Welding Material Sales, Inc. 1340 Reed Road Geneva, IL 60134 USA
Product Name	Coated electrodes: BD1000
Telephone Number	630-232-6421
Fax Number	630-232-4619
Emergency Number	800-424-9300
E-mail	info@weldingmaterialsales.com

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

PREPARATION:

Core wire: Mn< 1%; Si<0,6%; C<0,1%; Iron bal.
Coating: Minerals; metallic powders; organic powders

Hazardous ingredients:

Important: This section covers the materials of which the products are manufactured. The fumes and gases produced during normal use of this product are covering in Section 5. The term "Hazardous in "Hazardous Material" should be interpreted as a term required and defined in OSHA Hazard Communication Standard 29CFR 1910-1200 and it does not necessarily imply the existence of hazard. The chemicals or compounds reportable by Section 313 of SARA are marked by the symbol #.

INGREDIENTS	CAS #	% RANGE	OSHA PEL Mg/m ³	ACGIH-TLV Mg/m ³	CARCINOGENICITY	R-PHASE
Iron	7439-89-6	65-75	5	10 (as Fe ₂ O ₃)	NO	-
Manganese	7439-96-5	1-11	5	1	NO	-
Titanium Dioxide	13463-67-7	5-15	15	10	NO	-
Cellulose	9004-34-6	1-11	Not Registrd.	10	NO	-
Silicon Dioxide	7631-86-9	1-11	5	3	NO	-
Potassium Silicate	1312-76-1	1-11	Not Registrd	5	NO	-
Feldspar	68476-25-5	1-11	Not Registrd.	2	NO	-

SECTION 3: HAZARD IDENTIFICATION

Effects of acute exposure:

Route(s) of entry: Inhalation and skin contact.

Eye and Skin: when welding, arc rays can injure eyes and burn skin

Inhalation: Exposure to dust and welding fumes may cause irritation to upper respiratory tract. May cause respiratory sensitization in susceptible individuals.

Reasonable expected decomposition products from normal use of these products include a complex of the oxides of the materials listed in Section 2, as well as carbon monoxide, carbon dioxide, ozone, and nitrogen oxides (refer to "Characterization of Arc Welding Fume" available from the American Welding Society). THE TLV FOR MANGANESE (0,02 mg/m³) WILL BE REACHED BEFORE THE GENERAL LIMIT FOR WELDING FUMES OF 5 mg/m³ IS REACHED. MONITOR FUMES FOR MANGANESE LEVELS. The only way to determine the true identity of the decomposition products is by sampling and analysis. The composition and quantity of the fumes and gases to which a worker may be overexposed can be determined from a sample obtained from inside the welder's helmet, if worn, or in the worker's breathing zone. See ANSI/AWS F1.1 "Method for Sampling Airborne Particles Generated by Welding and Allied Processes". Available from the American Welding Society.

Ingestion: Amounts ingested incidental to industrial handling are not likely to cause injury. Single dose oral toxicity is low.

Effects of chronic exposure: Refer to section 11 for specific toxicological information.

SECTION 4: FIRST AID MEASURES

Inhalation: Remove victim to fresh air if effects occur.

Skin: Wash off with soap and plenty of water.

Eyes: Irrigate with water for several minutes.

Ingestion: Rinse mouth.

Note to physician: No particular advice.

SECTION 5: FIRE FIGHTING MEASURES

Means of extinguishing: No danger requiring special measures.

Special protective equipment when fighting fire: none.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Individual precautions: Avoid dust formation/breathing dust.

Environmental protection precautions: No particular indications

Cleaning measures: Remove spoiled product mechanically.

SECTION 7: HANDLING AND STORAGE

HANDLING:

With standard transportation equipment.

STORAGE:

Store in a dry place in closed packages.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Technical measures: Use adequate local exhaust for welding fumes. Avoid grinding dust inhalation.

Exposure limits: See section 2.

Personal Protection:

-Respiratory protection: use an air purifying dust respirator.

-Hands protection: wear appropriate gloves to prevent skin contact.

-Eyes protection: welder's helmets.

-Skin protection: wear appropriate overalls to prevent skin or body contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Odor: none

PH: non-applicable

Melting point: 1830-2730 °F, 1000-1500° C

Relative density: 5-8 g/cm³

Solubility: insoluble in water

SECTION 10: STABILITY AND REACTIVITY

STABILITY

Conditions to avoid: not applicable

Materials to avoid: reacts with acids.

Hazardous decomposition products: unknown.

SECTION 11: TOXICOLOGICAL INFORMATION

Effects of acute exposure

Toxicity to animals: unknown

Local effects: not applicable

Inhalation: not applicable for the product. For welding fumes see section 3.

Ingestion: not applicable

Contact with skin: no adverse effects expected.

CARCINOGENICITY:

Effects of chronic (long-term) overexposure to air contaminants may lead to their accumulation in the lungs, a condition which may be seen as dense areas on chest X-rays. The severity of the change is proportional to the length of exposure. The changes seen are not necessarily associated with symptoms or signs of reduced lung function or disease. In addition, the changes on X-rays may be caused by non-work factors such as smoking, etc. Nickel and chromium (in some products) are considered carcinogenic. Long term overexposure to nickel fumes may also cause pulmonary fibrosis and edema. Overexposure to manganese compounds may affect the central nervous system, symptoms of which are languor, sleepiness, muscular weakness, emotional disturbances, and spastic gait. The effect of manganese on the nervous system is irreversible.

SECTION 12: ECOLOGICAL INFORMATION

About product: data are unknown.

About ingredients: data are unknown.

SECTION 13: DISPOSAL CONSIDERATIONS

Product: For product elimination, consult recycling companies or appropriate local authority.

Package: May be disposed in approved landfills provided local regulations are observed.

SECTION 14: TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS:

Land shipment: no hazard

-Rail/rout (RID/ADR):

Sea shipment: no hazard

Shipment by air: no hazard

SECTION 15: REGULATORY INFORMATION

Label CEE: not necessary

Danger symbols and indications:

R-Phrases:

S-Phrases:

SECTION 16: OTHER INFORMATION

The information in this document is believed to be correct as of the date issued. However, no warranty is expressed or implied regarding the accuracy or completeness of this information. This information and product are furnished on the condition that the person receiving them shall make his own determinations as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

This Material Safety Data Sheet complies with the EC directives 91/155/EEC and 93/112/EEC

Including modifications 2001/58/EC.

Complies with OSHA Communication Standard 29 CFR 1910.1200 and Superfund Amendments and Reauthorization Act (SARA) of 1986 Public Law 99-499