

ILMENITE

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Associated Minerals (USA) Inc.		EMERGENCY TELEPHONE NO. 904/284-9832
ADDRESS (Number, Street, City, State, and ZIP Code) P.O. Box 1036, Green Cove Springs, Florida 32043		
CHEMICAL NAME AND SYNONYMS Ferrous Titanate - Titanic Iron Ore		TRADE NAME AND SYNONYMS AMA - Florida Ilmenite
CHEMICAL FAMILY Mineral - Ilmenite	FORMULA FeTiO ₃	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)	
PIGMENTS	N.A.		BASE METAL	N.A.		
CATALYST	"		ALLOYS	"		
VEHICLE	"		METALLIC COATINGS	"		
SOLVENTS	"		FILLER METAL PLUS COATING OR CORE FLUX	"		
ADDITIVES	"		OTHERS	"		
OTHERS	"					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES					%	TLV (Units)
Ilmenite mineral, as shipped, does not pose a hazard to health because the particles are larger than the respiratory size range. If product is ground, a nuisance dust will result. (See Section V.)						

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N.A.	SPECIFIC GRAVITY (H ₂ O=1)	4.30
VAPOR PRESSURE (mm Hg.)	N.A.	PERCENT VOLATILE BY VOLUME (%)	N.A.
VAPOR DENSITY (AIR=1)	N.A.	EVAPORATION RATE (_____ =1)	N.A.
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Black, free-flowing solid. No odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N.A.	FLAMMABLE LIMITS	N.A.	Lel	Uel
EXTINGUISHING MEDIA	N.A.				
SPECIAL FIRE FIGHTING PROCEDURES	N.A.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None				

SECTION V - HEALTH HAZARD DATA

XXXXXXXXXXXXXXXXXXXXX
 If product is ground to produce a dust, then exposed
 XXXXXXXXXXXXXXXXXXXXX
 personnel may be protected by respiratory apparatus as listed
 in U.S. Bureau of Mines information circular (IC) No. 8436.
 XXXXXXXXXXXXXXXXXXXXX

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid) None			
HAZARDOUS DECOMPOSITION PRODUCTS None			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Ilmenite mineral is chemically inert. Special clean-up procedures are not required should a spill occur.

WASTE DISPOSAL METHOD

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)
 None required when handling material as shipped.

VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES		EYE PROTECTION
OTHER PROTECTIVE EQUIPMENT		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
 None

OTHER PRECAUTIONS
 None

NOTICE FROM ASSOCIATED MINERALS (USA) INC.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.