

MATERIAL SAFETY DATA SHEET

SECTION I. NAME AND PRODUCT

MANUFACTURER'S NAME ATLANTIC STATES CAST IRON PIPE COMPANY		ATLANTIC'S EMERGENCY PHONE NUMBER 201-454-1161
ADDRESS (STREET, CITY, STATE AND ZIP CODE) 183 Sitgreaves Street Phillipsburg, New Jersey 08865		ATLANTIC'S PHONE NO 201-454-1161
TRADENAME, COMMON NAME OR SPECIFICATION DUCTILE IRON PIPE		EFFECTIVE DATE November 1985
CHEMICAL FAMILY OR PRODUCT TYPE IRON CASTINGS		APPROVED BY:

SECTION II. REGULATED INGREDIENTS

CHEMICAL NAME	PERCENT INGREDIENT	OSHA PERMISSIVE EXPOSURE LIMIT	ACGIH TLV
Carbon	2.75 - 3.80 %	Not Listed	Not Listed
Silicon	1.50 - 2.85 %	Not Listed	10 mg/m ³
Manganese	0.20 - 0.50 %	0.5 mg/m ³	1 mg/m ³ (as fume)
Manganese	0.20 - 0.50 %	Not Listed	0.5 mg/m ³ (as dust)
Chrome	0.03 - 0.25 %	1 mg/m ³	5 mg/m ³
Copper	0.05 - 0.50 %	1 mg/m ³ (as fume)	2 mg/m ³
Copper	0.05 - 0.50 %	1 mg/m ³ (as dust)	1 mg/m ³
Nickel	0.05 - 9.20 %	1 mg/m ³	1 mg/m ³
Iron	85.00 - 90.00 %	10 mg/m ³ (as iron Oxide)	5 mg/m ³
Cement Lining		Not Listed	5 mg/m ³
Portland Cement	40%		5 mg/m ³
Silica Sand	60%		10 mg/m ³

SECTION III. PHYSICAL AND CHEMICAL DATA

Boiling Point 5,000 °F	Melting Point 2,280 °F	Specific Gravity 7.4
Vapor Pressure N/A	Percent Volatile by Vol. N/A	Vapor Density N/A
Evaporation Rate N/A	Solubility in Water Insoluble	Solubility in Alcohol Insoluble
Solubility in Other Solvent N/A	Appearance and Odor Metallic - No Odor	

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

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

Fire Hazard 0: Will not burn

SECTION V. HEALTH, FIRST AID AND MEDICAL DATA

PRIMARY ROUTES OF ENTRY	ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE	EMERGENCY AND FIRST AID PROCEDURES
Inhalation	See overview	See overview
Ingestion	No problem	N/A
SKIN	No problem	N/A
Eye	No problem	Mechanical injury as from

9/23/82

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm 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 Concord Chemical Co., Inc.		EMERGENCY TELEPHONE NO. 609-966-1526
ADDRESS (Number, Street, City, State, and ZIP Code) 17th & Federal Streets, Camden, NJ 08105		
CHEMICAL NAME AND SYNONYMS N/A		TRADE NAME AND SYNONYMS Ease-On Pipe Lubricant
CHEMICAL FAMILY Soap	FORMULA N/A	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
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)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	1.06
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	25
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ = 1)	N/A
SOLUBILITY IN WATER	appreciable		
APPEARANCE AND ODOR	Tan colored paste, mild odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	None	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA				
SPECIAL FIRE FIGHTING PROCEDURES				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None, not flammable			

SECTION VI. CORROSIVITY AND REACTIVITY DATA

Stability: Unstable Stable X Hazardous Polymerization: May Occur Will Not Occur X
INCOMPATIBILITY (MATERIAL TO AVOID)

N/A

DECOMPOSITION PRODUCTS

N/A

CONDITIONS TO BE AVOIDED

N/A

Reactivity Hazard 0: Normally stable

SECTION VII. STORAGE, HANDLING AND USE PROCEDURES

NORMAL STORAGE AND HANDLING

Follow safe handling and storage procedures. No special precautions

NORMAL USE

Transportation of water, and waste water.

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS

N/A

WASTE DISPOSAL METHOD

Re-melt in appropriate furnace.

SECTION VIII. PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE) MSHA/NIOSH approved respirator for dust & metal fumes.

VENTILATION

LOCAL See below

MECHANICAL

(GENERAL) See below

OTHER See below

PROTECTIVE GLOVES See below

EYE PROTECTION See below

OTHER EQUIPMENT See below

MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF IRON CASTINGS EQUIPMENT

Ductile iron pipe as supplied does not constitute a health hazard. If material is to be modified, follow the appropriate safe work procedure for eye, respiratory, and body protection. CAUTION: Welding, cutting or grinding on this casting may generate toxic dust or fumes. Ventilation in volume & Pattern should be provided to keep air contaminant concentration below current standards. Eye protection: Protective glasses, goggles, face shield. Other protective equipment: Protective shoes, hard hat, work gloves. Respiratory protection: Dust mist for dust, organic vapor for welding fumes.

SECTION IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

OTHER PRECAUTIONS Same as Section VII

NOTICE: Atlantic States Cast Iron Pipe Company believes that the information contained on this material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of this publication. They are not necessarily all-inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements.

NO WARRANTY EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE INFORMATION CONTAINED HEREIN.

Other Potential Health Risks: Ductile iron pipe as supplied does not constitute a health hazard. If material is to be modified, follow the appropriate safe work procedure for eye, respiratory and body protection.

Health Hazard 0: Normal material

Page 2-10-1