

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 Action Mining Services Inc.		EMERGENCY TELEPHONE NO. 800-624-1511
37482 Ruben Lane Sandy OR 97055		
CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS CLS20 Series	
CHEMICAL FAMILY	FORMULA	

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)
Forms HCl mixture when dissolved in water of pH2					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	230	SPECIFIC GRAVITY (H ₂ O=1)	1.45
VAPOR PRESSURE (mm Hg.)	20	PERCENT, VOLATILE BY VOLUME (%)	58
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (_____ =1)	
SOLUBILITY IN WATER			
APPEARANCE AND ODOR	Brown - light to dark		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	Water and sand or dry chemical		
SPECIAL FIRE FIGHTING PROCEDURES	Product is water soluble & water may be acid and should not be allowed to enter navigable stream. Above 600°C decomposes to iron oxide & sulfur trioxide		
UNUSUAL FIRE AND EXPLOSION HAZARDS	Can give off HCl fumes		

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE Rabbit; No LD at 2 grams/KG, I.V. Dog - Soluble iron salts
as Fe 1.0mg/m³

EFFECTS OF OVEREXPOSURE
- May discolor skin; -may cause chapping-

- Corrosive to the eye - Dusty, may cause coughing

EMERGENCY AND FIRST AID PROCEDURES

Skin: Wash with water & soda ash-- Eyes: Irrigate for 15 minutes.
Seek medical assistance.-- Ingestion: Treat as corrosive liquid.

Drink large quantity water or milk to reduce concentration. Seek medical aid.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Contact with eyes
	STABLE	X	

INCOMPATIBILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

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
Wash with water and soda ash

WASTE DISPOSAL METHOD
Remove dry product to approved land fill. If solution, neutralize with sodium hydroxide to pH8, then to pH7 with H₂SO₄ and remove from area.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Respirator when handling dry powder.		
VENTILATION	LOCAL EXHAUST X	SPECIAL
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES Rubber	EYE PROTECTION Safety glasses	
OTHER PROTECTIVE EQUIPMENT Neoprene apron & boots may be worn		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Store away from heat -
Keep free from moisture.

OTHER PRECAUTIONS