

MATERIAL SAFETY DATA SHEET

Hardness Test Kit #2012

SECTION I

MANUFACTURER'S NAME LaMotte Chemical Products Co.		EMERGENCY TELEPHONE NO. 301-778-3100
ADDRESS (Number, Street, City, State, and ZIP Code) P.O. Box 329, Chestertown, Maryland 21620		
CHEMICAL NAME AND SYNONYMS -----	TRADE NAME AND SYNONYMS Hardness Reagent #5,	Codes 4483,
CHEMICAL FAMILY	FORMULA 5635,6202, 8250,8061,8217	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE	N / A		METALLIC COATINGS	N / A	
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES					% TLV (Units)
Sodium sulfide ($\text{Na}_2\text{S}\cdot 9\text{H}_2\text{O}$)			CAS # 1313-84-4		1
Potassium sodium tartrate ($\text{KNaC}_4\text{H}_4\text{O}_6\cdot 4\text{H}_2\text{O}$)			CAS #304-59-6		1
Sodium hydroxide (NaOH)			CAS #1310-73-2		0.68
Sodium Borate ($\text{Na}_2\text{B}_4\text{O}_7\cdot 10\text{H}_2\text{O}$)			CAS #1303-96-4		4

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	unknown	SPECIFIC GRAVITY ($\text{H}_2\text{O}=1$)	unknown
VAPOR PRESSURE (mm Hg.)	unknown	PERCENT. VOLATILE BY VOLUME (%)	unknown
VAPOR DENSITY (AIR=1)	unknown	EVAPORATION RATE (_____ =1)	unknown
SOLUBILITY IN WATER	soluble		
APPEARANCE AND ODOR clear, colorless liquid; odor of sulfide			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	LeI	UeI
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES NOT A FIRE HAZARD			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	unknown
EFFECTS OF OVEREXPOSURE	May cause skin irritation
EMERGENCY AND FIRST AID PROCEDURES	
Eye contact - flush thoroughly with water for 15 minutes	
External - flush thoroughly with water	
Internal - give large quantities of water, call a physician.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	N/A
INCOMPATIBILITY (Materials to avoid) N/A			
HAZARDOUS DECOMPOSITION PRODUCTS N/A			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	N/A

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
Neutralize with 6M-HCl and mop up. Discharge to sewer with large excess of water.	
WASTE DISPOSAL METHOD	
Pour into a tank of water and neutralize. Transfer to sewer with large excess of water.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) none			
VENTILATION	LOCAL EXHAUST	X	SPECIAL -----
	MECHANICAL (General)		OTHER -----
PROTECTIVE GLOVES		plastic gloves	EYE PROTECTION
OTHER PROTECTIVE EQUIPMENT		lab coat	goggles

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Protect against physical damage. Store in a well closed container.	
Avoid contact with skin or clothing.	
OTHER PRECAUTIONS	

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