

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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