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Material Safety Data Sheet

SECTION I - Material Identity
SECTION II - Manufacturer's Information
SECTION III - Physical/Chemical Characteristics
SECTION IV - Fire and Explosion Hazard Data
SECTION V - Reactivity Data
SECTION VI - Health Hazard Data
SECTION VII - Precautions for Safe Handling and Use
SECTION VIII - Control Measures
SECTION IX - Label Data
SECTION X - Transportation Data
SECTION XI - Site Specific/Reporting Information
SECTION XII - Ingredients/Identity Information

SECTION I - Material Identity

| | |
|------------------------|------------------|
| Item Name | |
| Part Number/Trade Name | STARRETT CLEANER |
| National Stock Number | 7930P220-1 |
| CAGE Code | SURRY |
| Part Number Indicator | A |
| MSDS Number | 186462 |
| HAZ Code | B |

SECTION II - Manufacturer's Information

| | |
|-------------------|------------------------------------|
| Manufacturer Name | SURRY CHEMICALS, INC (LS STARRETT) |
| P.O. Box | 1447 |
| Street | 241 HICKORY STREET |
| City | MOUNT AIRY |
| State | NC |
| Country | US |
| Zip Code | 27030 |
| Emergency Phone | 800-424-9300 (CHEMTREC) |
| Information Phone | 919-786-4607 |

MSDS Preparer's Information

| | |
|----------------------------|---------|
| Date MSDS Prepared/Revised | 07MAY98 |
|----------------------------|---------|

| | |
|--------------------------|---------|
| Date of Technical Review | 14DEC92 |
| Active Indicator | Y |

Alternate Vendors

SECTION III - Physical/Chemical Characteristics

| | |
|-----------------------------------|--|
| Hazard Storage Compatibility Code | NR |
| NRC License Number | NR |
| Net Propellant Weight (Ammo) | NR |
| Appearance/Odor | CLEAR TO PINKISH LIQUID, CHEMICAL ODOR |
| Boiling Point | 100 C |
| Melting Point | NR |
| Vapor Pressure | 1.0 |
| Vapor Density | 1.0 |
| Specific Gravity | 1.00 |
| Decomposition Temperature | NR |
| Evaporation Rate | LIKE WATER |
| Solubility in Water | DISPERSES |
| Percent Volatiles by Volume | 96 |
| Chemical pH | 12.0-13.0 |
| Corrosion Rate | NR |
| Container Pressure Code | 1 |
| Temperature Code | 4 |
| Product State Code | L |

SECTION IV - Fire and Explosion Hazard Data

| | |
|----------------------------------|-----------------------------------|
| Flash Point Method | NA |
| Lower Explosion Limit | NA |
| Upper Explosion Limit | NA |
| Extinguishing Media | FOAM,CARBON DIOXIDE,DRY CHEMICALS |
| Special Fire Fighting Procedures | NONE KNOWN |
| Unusual Fire/Explosion Hazards | NONE KNOWN |

SECTION V - Reactivity Data

| | |
|------------------------------------|--------------------------------|
| Stability | YES |
| Stability Conditions to Avoid | NONE SPECIFIED BY MANUFACTURER |
| Materials to Avoid | STRONG ACIDS,OXIDIZING AGENTS |
| Hazardous Decomposition Products | NONE KNOWN |
| Hazardous Polymerization | NO |
| Polymerization Conditions to Avoid | WILL NOT OCCUR |
| LD50 - LD50 Mixture | NR |

SECTION VI - Health Hazard Data

| | |
|--------------------------------------|---|
| Route of Entry: Skin | YES |
| Route of Entry: Ingestion | YES |
| Route of Entry: Inhalation | YES |
| Health Hazards - Acute and Chronic | DETERGENT ACTION CAUSES SKIN DRYNESS AND IRRITATION |
| Carcinogenity: NTP | NO |
| Carcinogenity: IARC | NO |
| Carcinogenity: OSHA | NO |
| Explanation of Carcinogenity | NR |
| Symptoms of Overexposure | DETERGENT ACTION CAUSES SKIN DRYNESS AND IRRITATION |
| Medical Cond. Aggravated by Exposure | NR |
| Emergency/First Aid Procedures | [EYES] FLUSH W/ WATER FOR 15 MINUTES [SKIN] WASH W/ SOAP AND WATER, REMOVE CONTAMINATED CLOTHING, LAUNDRER BEFORE REUSE [INHAL] REMOVE TO FRESH AIR [INGEST] DRINK PLENTY OF WATER. GET MEDICAL ATTENTION IMMEDIATELY |

SECTION VII - Precautions for Safe Handling and Use

| | |
|------------------------------------|--|
| Steps if Material Released/Spilled | SMALL SPILLS:FLUSH TO NEAREST CHEMICAL SEWER AFTER NEUTRALIZATION WITH 6N HCL OR VINEGAR.LARGE SPILLS:ABSORB ON SUITABLE MATERIAL.SCOOP UP AND NEUTRALIZE WITH 6N HCL OR VINEGAR |
| Neutralizing Agent | 6N HCL OR VINEGAR |
| Waste Disposal Method | DISPOSAL MUST BE I/A/W FEDERAL, STATE & LOCAL REGULATIONS |
| Handling and Storage Precautions | HANDLE WITH DUE CARE |
| Other Precautions | NONE KNOWN |

SECTION VIII - Control Measures

| | |
|---------------------------------|----------------------|
| Respiratory Protection | NONE REQUIRED |
| Ventilation | NO |
| Protective Gloves | RUBBER |
| Eye Protection | CHEM GOGGLES |
| Other Protective Equipment | NONE |
| Work Hygenic Practices | HANDLE WITH DUE CARE |
| Supplemental Health/Safety Data | NR |

SECTION IX - Label Data

| | |
|---------------------|---------|
| Protect Eye | YES |
| Protect Skin | YES |
| Protect Respiratory | YES |
| Chronic Indicator | NO |
| Contact Code | SLIGHT |
| Fire Code | UNKNOWN |
| Health Code | UNKNOWN |
| React Code | UNKNOWN |

Specific Hazard and Precaution

NO TARGET ORGANS LISTED

SECTION X - Transportation Data

| | |
|--------------------|----|
| Container Quantity | 1 |
| Unit of Measure | GL |

SECTION XI - Site Specific/Reporting Information

| | |
|----------------------------------|---------|
| Volatile Organic Compounds (P/G) | .167 |
| Volatile Organic Compounds (G/L) | 20.0131 |

SECTION XII - Ingredients/Identity Information

| | |
|-----------------|-------------------------------------|
| Ingredient # | 01 |
| Ingredient Name | NONIONIC SURFACTANTS |
| CAS Number | 68131408 |
| Proprietary | NO |
| Percent | 1 |
| OSHA PEL | NOT APPLICABLE |
| ACGIH TLV | NOT APPLICABLE |
| Ingredient # | 02 |
| Ingredient Name | DIPROPYLENE GLYCOL MONOMETHYL ETHER |
| CAS Number | 34590948 |
| Proprietary | NO |
| Percent | 2 |
| Ingredient # | 03 |
| Ingredient Name | POTASSIUM HYDROXIDE |
| CAS Number | 1310583 |
| Proprietary | NO |
| Percent | 0.5 |
| OSHA PEL | NR |
| ACGIH TLV | 2 MG/M3 |
| Ingredient # | 04 |
| Ingredient Name | EDTA |
| CAS Number | 64028 |
| Proprietary | NO |
| Percent | 0.25 |
| OSHA PEL | NA |
| ACGIH TLV | NA |
| Ingredient # | 05 |
| Ingredient Name | DIRECT RED 243 |
| CAS Number | 52953363 |
| Proprietary | NO |
| Percent | .01 |
| OSHA PEL | NA |
| ACGIH TLV | NA |

