MATERIAL SAFETY DATA SHEET

PRODUCT CODE: 190410
PRODUCT NAME: MURPHY OIL SOAP LIQUID

NFPA RATING:
HEALTH:
FLAMMABILITY:
REACTIVITY:
SPECIAL:

HMIS RATING:
HEALTH:
FLAMMABILITY:
REACTIVITY:
PERSONAL PROT:

******SECTION I******

DISTRIBUTOR'S NAME: PHILIP ROSENBAUM CO.
DISTRIBUTOR'S ADDRESS: 220 LINCOLN AVENUE
P.O. BOX 190
CITY, STATE, ZIP: HATBRO, PA 19040-2225
INFORMATION TELEPHONE NUMBER: (215) 956-1980
EMERGENCY TELEPHONE NUMBER: (800) 255-3924 (CHEM-TEL, INC.)

MANUFACTURER'S NAME: COLGATE-PALMOLIVE COMPANY
INSTITUTIONAL PRODUCTS DIVISION
MANUFACTURER'S ADDRESS: 101 NORTH SUMMIT STREET
CITY, STATE, ZIP: TENAFLY, NJ 07670
INFORMATION TELEPHONE NUMBER: (201) 878-7533
EMERGENCY TELEPHONE NUMBER: (412) 692-5596
DATE PREPARED: NOVEMBER 1991

***SECTION II: HAZARDOUS INGREDIENTS/IDENTITY INFO***

HAZARDOUS COMPONENTS:

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS#</th>
<th>CONC.</th>
<th>OSHA/PEL</th>
<th>ACGIH/TLV</th>
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</thead>
</table>

NONE

THIS MIXTURE CONTAINS THE FOLLOWING HAZARDOUS INGREDIENTS LISTED AS CARCINOGENS OR POTENTIAL CARCINOGENS BY EITHER THE NATIONAL TOXICOLOGY PROGRAM (NTP), INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) OR OSHA, AND PRESENT AT A CONCENTRATION GREATER THAN 0.1%.

NONE

***PHYSICAL/ CHEMICAL CHARACTERISTICS***

POILING POINT: N/A
SPECIFIC GRAVITY (H2O=1): 1
VAPOR PRESSURE (MMHG): N/A
VAPOR DENSITY (AIR=1): N/A
% VOLATILES BY VOLUME OR WEIGHT: N/A
EVAPORATION RATE (BUAC = 1): N/A

SOLUBILITY IN WATER: COMPLETE
APPEARANCE AND ODOR: AMBER VISCOUS LIQUID/CITRUS ODOR.

***SECTION IV: FIRE AND EXPLOSION HAZARD DATA***

FLASH POINT (METHOD USED): N/A
CUSTOMER NR:

AUTOIGNITION TEMP:
FLAMMABLE LIMITS:

EXTINGUISHING MEDIA: CO2, DRY CHEMICAL, FOAM.

SPECIAL FIRE FIGHTING PROCEDURES: SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN WHEN FIGHTING CHEMICAL FIRES.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

SECTION V: REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID:

INCOMPATIBILITY (MATERIALS TO AVOID): AVOID PROLONGED CONTACT WITH THE MORE REACTIVE ALLOYS (ALUMINUM, BRASS, BRONZE, ETC). AVOID CONTACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION OR BY PRODUCTS: CARBON MONOXIDE AND CARBON DIOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID:

SECTION VI: HEALTH HAZARD DATA

Routes of Entry: Inhalation, Skin, Ingestion

Health Hazards (Acute and Chronic): Corrosive material; skin irritant and severe eye irritant. Harmful if swallowed. Acute oral LD 50: 1.66 g/kg

Carcinogenicity: No

Signs and Symptoms of Exposure:
Ingestion - Nausea, vomiting, and diarrhea.
Eyes - Severe eye irritation upon direct contact.
Skin - May cause skin irritation upon prolonged contact.
Inhalation - Not known

Medical conditions generally aggravated by exposure: Not known

Emergency and First Aid Procedures:
Ingestion - If you eat or drink this, you may throw up. Drink sips of water or milk. If vomiting continues, call your poison center or doctor.

Eyes - This product can cause eye irritation. If you get it in your eye, pour warm water through eye for 15 minutes. If your eye still bothers you, call your poison center or doctor.

Skin - This may irritate your skin. Take off wet clothes. Pour warm water on your skin for 15 minutes. Wash contaminated clothing before reuse. If not better, call your poison center or doctor.

Inhalation - If you breathe some of this product, it may make you cough. Take some slow deep breaths of fresh air and sip some water. If you keep coughing, call your poison center or doctor.
SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SMALL SPILLS CAN BE
PUSHED UP WITH A BROOM OR VACUUMED UP. CAUTION: SPILL AREA MAY BE SLIPPERY.

WASTE DISPOSAL METHOD: PREFERRED METHOD IS INCINERATION AT A LICENSED APPROVED
FACILITY. EMPTY CONTAINERS MAY BE DISPOSED AS CONVENTIONAL WASTE.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: STORE IN A COOL, DRY PLACE (40
°F TO 125 °F).

OTHER PRECAUTIONS: KEEP OUT OF THE REACH OF CHILDREN.

SECTION VIII: CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE):

VENTILATION:

PROTECTIVE GLOVES:

EYE PROTECTION:

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

WORK/HYGIENIC PRACTICES: AVOID CONTACT WITH SKIN AND EYES. UNDER NORMAL
CONDITIONS OF PRODUCT USE, NO SPECIAL PROTECTION FOR EYES/SKIN IS REQUIRED.

WHEN PREPARING A PASTE RUB OR IN SOAKING OPERATIONS WHERE SPASHING AND SKIN
AND/or EYE CONTACT ARE POSSIBLE, THE USE OF EYE PROTECTION (GOGGLES) AND RUBBER
GLOVES IS RECOMMENDED.

SECTION IX: SHIPPING REGULATIONS

UN/NA NUMBER:

DOT HAZARD CLASS:

SHIPPING LABEL:

SHIPPING NAME:

SECTION X: SPECIAL COMMENTS

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