

MURPHY-PHOENIX -- MURPHY OIL SOAP INDUSTRIAL  
MATERIAL SAFETY DATA SHEET  
NSN: 793000N037671  
Manufacturer's CAGE: 5R288  
Part No. Indicator: A  
Part Number/Trade Name: MURPHY OIL SOAP INDUSTRIAL

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General Information  
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Company's Name: MURPHY-PHOENIX CO  
Company's P. O. Box: 22930  
Company's City: BEACHWOOD  
Company's State: OH  
Company's Country: US  
Company's Zip Code: 44122  
Company's Emerg Ph #: 216-831-0404  
Company's Info Ph #: 216-831-0404  
Record No. For Safety Entry: 001  
Tot Safety Entries This Stk#: 001  
Status: SMJ  
Date MSDS Prepared: 01MAR89  
Safety Data Review Date: 14DEC92  
MSDS Preparer's Name: MARGE REDMAN  
Preparer's Company: SAME  
MSDS Serial Number: BQTZZ  
Hazard Characteristic Code: NK

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Ingredients/Identity Information  
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Proprietary: NO  
Ingredient: POTASSIUM SOAP; (POTASSIUM SOAP OF VEGETABLE OIL)  
Ingredient Sequence Number: 01  
Percent: 35-45  
NIOSH (RTECS) Number: 1001897PS  
OSHA PEL: NOT APPLICABLE  
ACGIH TLV: NOT APPLICABLE

Proprietary: NO  
Ingredient: ACETIC ACID, (ETHYLENEDINITRILLO)TETRA-, TETRASODIUM SALT;  
(SODIUM EDTA)  
Ingredient Sequence Number: 02  
Percent: 0-1  
NIOSH (RTECS) Number: AH5075000  
CAS Number: 64-02-8  
OSHA PEL: NOT APPLICABLE  
ACGIH TLV: NOT APPLICABLE

Proprietary: NO  
Ingredient: WATER  
Ingredient Sequence Number: 03  
Percent: 54-85  
NIOSH (RTECS) Number: ZC0110000  
CAS Number: 7732-18-5  
OSHA PEL: NOT APPLICABLE  
ACGIH TLV: NOT APPLICABLE

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Physical/Chemical Characteristics  
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Appearance And Odor: AMBER, VISCOUS PASTE WITH BLAND ODOR.  
Boiling Point: >220F, >104C  
Vapor Density (Air=1): N/A  
Solubility In Water: COMPLETELY SOLUBLE  
pH: 11

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Fire and Explosion Hazard Data  
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Flash Point: >250F,>121C  
Flash Point Method: TCC  
Lower Explosive Limit: N/A  
Upper Explosive Limit: N/A  
Extinguishing Media: WATER, WATER FOG, ALCOHOL FOAM, CARBON DIOXIDE OR DRY  
CHEMICAL ARE ALL SUITABLE.  
Special Fire Fighting Proc: WEAR NIOSH/MSHA APPROVED SCBA AND FULL  
PROTECTIVE EQUIPMENT (FP N). NONFLAMMABLE.  
Unusual Fire And Expl Hazrds: NONE SPECIFIED BY MANUFACTURER.  
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#### Reactivity Data

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Stability: YES  
Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.  
Materials To Avoid: PROLONGED CONTACT WITH MORE REACTIVE ALLOYS (ALUMINUM,  
BRASS, BRONZE, ETC.). STRONG OXIDIZING AGENTS.  
Hazardous Decomp Products: CARBON MONOXIDE AND CARBON DIOXIDE.  
Hazardous Poly Occur: NO  
Conditions To Avoid (Poly): NOT RELEVANT  
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#### Health Hazard Data

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LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.  
Route Of Entry - Inhalation: YES  
Route Of Entry - Skin: NO  
Route Of Entry - Ingestion: NO  
Health Haz Acute And Chronic: NOT HAZARDOUS. EYE IRRITANT.  
Carcinogenicity - NTP: NO  
Carcinogenicity - IARC: NO  
Carcinogenicity - OSHA: NO  
Explanation Carcinogenicity: NOT RELEVANT  
Signs/Symptoms Of Overexp: NONE SPECIFIED BY MANUFACTURER.  
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.  
Emergency/First Aid Proc: EYES: FLUSH WITH COPIOUS VOLUMES OF WATER FOR AT  
LEAST 15 MINUTES WHILE HOLDING LIDS OPEN. IF IRRITATION PERSISTS, CALL A  
PHYSICIAN. SKIN: FLUSH WITH COPIOUS AMOUNTS OF WATER. CALL MD (FP N) .  
INHAL: REMOVE TO FRESH AIR. SUPPORT BRTHG (GIVE O\*2/ARTF RESP) (FP N).  
INGEST: CALL MD IMMED (FP N).  
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#### Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: PROD IS BIODEGRADABLE. PLACE ANY SPILLED  
MATERIAL INTO DRUMS. THEN HOSE ANY REMAINING MATERIAL TO SEWAGE TREATMENT  
FACILITY, IN ACCORDANCE WITH ANY APPLICABLE REGULATIONS. CAUTION! SPILL  
AREA MAY BE SLIPPERY.  
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.  
Waste Disposal Method: DISPOSE OF DRUMS OF SPILLED MATERIAL IN A SECURED,  
LANDFILL, OR OTHER SUITABLE MEANS ACCORDING TO APPLICABLE FEDERAL, STATE  
AND LOCAL REGULATIONS.  
Precautions-Handling/Storing: AVOID PROLONGED CONTACT WITH MORE REACTIVE  
ALLOYS (ALUMINUM, BRASS, BRONZE, ETC). AVOID CONTACT W/STRONG OXIDIZING  
AGENTS. AVOID CONT W/EYES.  
Other Precautions: NONE SPECIFIED BY MANUFACTURER.  
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#### Control Measures

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Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR  
EXPOSURE OF CONCERN (FP N).  
Ventilation: NONE SPECIFIED BY MANUFACTURER.  
Protective Gloves: IMPERVIOUS GLOVES (FP N).  
Eye Protection: CHEMICAL WORKERS GOGGLES (FP N).  
Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER.  
Work Hygienic Practices: WASH THOROUGHLY AFTER USE.  
Suppl. Safety & Health Data: NONE SPECIFIED BY MANUFACTURER.  
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Transportation Data  
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Disposal Data  
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Label Data  
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Label Required: YES  
Technical Review Date: 07DEC92  
Label Date: 07DEC92  
Label Status: G  
Common Name: MURPHY OIL SOAP INDUSTRIAL  
Chronic Hazard: NO  
Signal Word: CAUTION!  
Acute Health Hazard-Slight: X  
Contact Hazard-Slight: X  
Fire Hazard-Slight: X  
Reactivity Hazard-None: X  
Special Hazard Precautions: ACUTE: EYE CONTACT MAY CAUSE IRRITATION.  
CHRONIC: NONE LISTED BY MANUFACTURER.  
Protect Eye: Y  
Protect Skin: Y  
Protect Respiratory: Y  
Label Name: MURPHY-PHOENIX CO  
Label P.O. Box: 22930  
Label City: BEACHWOOD  
Label State: OH  
Label Zip Code: 44122  
Label Country: US  
Label Emergency Number: 216-831-0404