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WELCH VACUUM TECHNOLOGY (FORMERLY SARGENT-WELCH CO -- WELCH DUOSEAL HIGH  
VACUUM PUMP OIL #1407K -- 9150-00-273-8663

===== Product Identification =====

Product ID:WELCH DUOSEAL HIGH VACUUM PUMP OIL #1407K

MSDS Date:08/29/1991

FSC:9150

NIIN:00-273-8663

MSDS Number: BDSBP

=== Responsible Party ===

Company Name:WELCH VACUUM TECHNOLOGY (FORMERLY SARGENT-WELCH CO

Address:7300 N LINDER AVE

Box:1026

City:

SKOKIE

State:IL

ZIP:60077-3217

Country:US

Info Phone Num:312-267-5300

Emergency Phone Num:312-267-5300

CAGE:IO538

=== Contractor Identification ===

Company Name:SARGENT-WELCH SCIENTIFIC CO

Address:7300 N LINDER AVE

Box:1026

City:SKOKIE

State:IL

ZIP:60076

Country:US

Phone:312-267-5300

CAGE:64484

Company Name:WELCH VACUUM TECHNOLOGY INC/THOMAS INDUSTRIES INC

Address:7300 NORTH LINDER AVE

Box:183

City:SKOKIE

State:IL

ZIP:60076-0183

Country:US

Phone:708-676-8800 EXT. 1

CAGE:IO538

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position/Information on Ingredients =====

Ingred Name:MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY  
PARAFFINIC  
CAS:64742-65-0  
RTECS #:PY8038500  
Fraction by Wt: 100%  
Other REC Limits:NONE SPECIFIED  
ACGIH TLV:5 MG/M3 (OIL MIST)

Ingred Name:REFINED HEAVY PARAFFINIC DISTILLATES  
CAS:64741-88-4  
Fraction by Wt: SEE #1%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:5 MG/M3 (OIL MIST)  
ACGIH TLV:5 MG/M3 (OIL MIST)

===== Hazards Identification =====

LD50 LC50 Mixture:LD50 (ORAL RAT)=15G/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYES/SKIN: IRRITATION. AVOID BREATHING  
OF MIST. PROLONGED OVEREXPOSURE MAY RESULT IN DERMATITIS AND  
RESPIRATORY DIFFICULTIES. ANIMAL STUDIES ALSO SHOW AN EFFECT ON THE  
KIDNEYS FOR EXPOSURE TO MATERIAL S SIMILAR TO THIS. AT HIGH  
TEMPERATURES, MISTS ABOVE TLV MAY CAUSE LUNG DAMAGE.  
Explanation of Carc  
inogenicity:NONE OF THE CHEMICALS IN THIS PRODUCT IS  
LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.  
Effects of Overexposure:IRRITATION OF EYES AND SKIN UPON CONTACT.  
IRRITATION OF THE RESPIRATORY TRACT, HEADACHES, DIZZINESS,  
ANESTHETIC EFFECT AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS  
INCLUDING DEATH IN RARE CASES. INGESTION MAY CAUSE CRAMPS AND  
DIARRHEA. INHALATION MAY CAUSE BRONCHITIS OR PULMONARY IRRITATION.  
Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF EYE, S  
KIN  
AND RESPIRATORY DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.

===== First Aid Measures =====

First Aid:EYE: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES.  
GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. INHALATION:  
REMOVE TO FRESH AIR. IF BREATHING IS IRREGULAR OR HAS STOPPED,  
START RESU SCITATION AND ADMINISTER OXYGEN. GET MEDICAL HELP  
IMMEDIATELY. INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL  
ATTENTION AT O

NCE. IN CASE OF SUBCUTANEOUS OR INTRAMUSCULAR  
INJECTION, SEEK HELP AT ONCE.

===== Fire Fighting Measures =====

Flash Point Method:COC

Flash Point:450F,232C

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY  
CHEMICAL. WATER MAY CAUSE FROTHING.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A  
FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL  
FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire

/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE  
HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

===== Accidental Release Measures =====

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT, ELIMINATE SOURCES  
OF IGNITION, AND VENTILATE AREA AS REQUIRED. RECOVER FREE LIQUID.  
ABSORB SMALL SPILL WITH INERT MATERIAL. PLACE WASTE IN DOT APPROVED  
CONTAINER FOR DISPOSAL. KEEP MATERIAL FROM WATERWAYS.WASH SPILL  
AREA.

Neutralizing Agent:NONE

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===== Handling and Storage =====

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED  
AREA AWAY FROM SOURCES OF IGNITION. KEEP CONTAINER CLOSED WHEN NOT  
IN USE. PROTECT FROM PHYSICAL DAMAGE.

Other Precautions:AVOID BREATHING OF MIST. MINIMIZE PERIODS OF EXPOSURE  
TO HIGH TEMPERATURE. AVOID WATER CONTAMINATION. SPILLS ARE SPILLERY  
AND A HAZARD TO PEDESTRIANS. CLEAN UP AT ONCE.

===== Exposure Controls/Personal Protection =====

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Respiratory Protection:NOT USUALLY REQUIRED.WHERE ENVIRONMENTAL  
CONTROLS ARE LACKING USE A NIOSH RESPIRATOR FOR ORGANIC VAPORS AND  
MISTS.

Ventilation:LOCAL EXHAUST WHEN TLV IS EXCEEDED.

Protective Gloves:OIL IMPERVIOUS

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:SAFETY SHOWER AND EYE BATH. INDUSTRIAL TYPE  
WORK CLOTHING AND APRON AS REQUIRED TO AVOID PROLONGED OR REPEATED  
CONTACT.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING

AND BEFORE  
EATING OR DRINKING. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

USE AIR-SUPPLIED RESPIRATORY EQUIPMENT IF EXPOSED TO HOT FUMES. TREAT  
EMPTY CONTAINERS AS DANGEROUS; DO NOT PRESSURIZE, CUT, WELD, BRAZE,  
SOLDER, DRILL, GRIND OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS,  
PILOT LIGHTS, STATIC ELECTRICITY. RESIDUE MAY BE DIFFICULT TO  
REMOVE.

===== Physical/Chemical Properties =====

HCC:V6  
NRC/State Lic Num:NO  
NE  
Boiling Pt:B.P. Text:750F,399C  
Vapor Pres:1 AIR=1  
Spec Gravity:0.88  
Evaporation Rate & Reference: