

FISHER SCIENTIFIC CO,CHEMICAL DIV. -- S0P15 OR S70104 PERMOUNT SOLUTION --
6640-00-935-1485

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

Product ID:S0P15 OR S70104 PERMOUNT SOLUTION
MSDS Date:07/14/1993
FSC:6640
NIIN:00-935-1485
MSDS Number: BVGMQ
=== Responsible Party ===
Company Name:FISHER SCIENTIFIC CO,CHEMICAL DIV.
Address:1 REAGENT LANE
City:FAIR LAWN
State:NJ
ZIP:07410
Country:US
Info Phone Num:201-796-7100
Emergency Phone Num:201-796-7100(CHEMTREC 800-424-9300)
CAGE:1B464

==== Contractor Identification ===
Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV
Address:1 REAGENT LANE
Box:City:FAIRLAWN
State:NJ
ZIP:07410-2802
Country:US
Phone:201-796-7100
CAGE:1B464

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===== Composition/Information on Ingredients =====

Ingred Name:TOLUENE (SARA III)
CAS:108-88-3
RTECS #:XS5250000
Fraction by Wt: 55.2%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:200 PPM; Z-2
ACGIH TLV:S, 50 PPM

; 9394
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:BETA PINENE POLYMER
CAS:68240-09-5
Fraction by Wt: 44%
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:RAT LC50 (RAT) IS 26,700 PPM/1 HR
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE: INHALATION: IRRITANT, NARCOTIC,
NEUROTOXIN. INGESTION: NARCOTIC. MAY C
AUSE NAUSEA, DIARRHEA,
DYSURIA, HEMATURA, UNCONSCIOUSNESS, AND CONVULSIONS. SKIN: MAY
CAUSE IRRITATION. EYES: IRRITATION AN D CORNEAL BURNS. CHRONIC:
PROLONGED EXPOSURE MAY CAUSE KIDNEY AND BLADDER DAMAGE, CHRONIC
NEPHRITIS WITH ALBUMINURIA.
Explanation of Carcinogenicity:IARC LISTS TOLUENE (3) AS UNDETERMINED
OR UNCLASSIFIABLE AS A CARCINOGEN.
Effects of Overexposure:IRRITATION, FATIGUE, WEAKNESS, CONFUSION,
HEADACHE, NAUSEA, IMPAIRED COORDINATION AND REACTION TIME,
PARESTHESIAS OF THE SKIN, DIZZINESS, EUPHORIA, DIALATED PUPILS,
NASAL MUCOUS SECRETION, METALLIC TA STE, DROWSINESS, TINNITUS, AND
IMPAIREDBALANCE. AFTEREFFECTS INCLUDE NERVOUSNESS, MUSCULAR
FATIGUE, AND INSOMNIA.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:GET MEDICAL ATTENTION IMMEDIATELY. EYES: WASH WITH LARGE
AMOUNTS OF WATER OR NORMAL SALINE, LIFT LIDS. SKIN: REMOVE
C
ONTAMINATED CLOTHING. WASH AREA WITH SOAP & WATER. INHALATION:
MOVE TO FRESH AIR & RESTORE BREATHING IF NECESSARY. INGESTION: DO
NOT INDUCE VOMITING.

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

Flash Point:45.0F,7.2C
Lower Limits:1.4
Upper Limits:6.7
Extinguishing Media:USE WATER SPRAY, CARBON DIOXIDE, FOAM, OR DRY
CHEMICAL.
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A
FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AR

EA. 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:ELIMINATE SOURCES OF IGNITION. STOP LEAK IF NO RISK. USE WATER SPRAY TO REDUCE VAPORS, IF NEEDED. CONTAIN SPILL, KEEP OUT OF SEWERS & WATERWAYS. ABSORB WITH VERMICULITE OR OTHER SUITABLE MATERIAL. PLACE IN A SUITABLE CONTAINER FOR LATER DISPOSAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN ACCORDANCE WITH 29 CFR 1910.106. STORE AWAY FROM INCOMPATIBLE MATERIALS.

Other Precautions:EMPTY CONTAINERS CAN BE HAZARDOUS DUE TO RESIDUE OF FLAMMABLE LIQUID. USE PROPER BONDING & GROUNDING METHODS (NFPA 77-1983, RECOMMENDED PRACTICE ON STATIC ELECTRICITY) DURING TRANSFER OPERATIONS.

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

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR EMERGENCY OCCURS; WEAR USE NIOSH/MSHA APPROVED RESPIRATOR OR SUPPLIED AIR RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134 AND MANUFACTURER'S RECOMMENDATIONS.

Ventilation:PROVIDE EXPLOSION-PROOF LOCAL EXHAUST OR PROCESS ENCLOSURE VENTILATION TO MEET PUBLISHED EXPOSURE LIMITS.

Protective Gloves:NITRILE, PVA, VITON

Eye Protection:CHEMICAL SAFETY GLASSES OR GOGGLES.

Other Protective Equipment:EYEWASH STATION, SAFETY SHOWER AND PROTECTIVE CLOTHING APPROPRIATE TO PREVENT PROLONGED OR REPEATED SKIN CONTACT.

Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

HEALTH: STIMULANTS SUCH AS EPINEPHRINE MAY INDUCE VENTRICULAR FIBRILLATION. ALCOHOL MAY ENHANCE THE TOXIC EFFECTS. THE METABOLISM OF OTHER SOLVENTS MAY BE INHIBIT

ED RESULTING IN A POTENTIATION OF TOXIC EFFECTS. UPTAKE IS DIRECTLY PROPORTIONAL TO AMOUNT OF BODY FAT. BLOOD LEVELS MAY BE CUMULATIVE WHEN EXPOSURE EXTENDED.

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

HCC:F2

Solubility in Water:INSOLUBLE

Appearance and Odor:YELLOW LIQUID

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS. REACTS WITH MANY OTHER CHEMICALS WITH VIGOROUS O

R EXPLOSIVE REACTIONS.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION.

Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE TOXIC OXIDES OF CARBON TOXIC OXIDES OF CARBON.

Conditions to Avoid Polymerization:HAZARDOUS POLYMERIZATION HAS NOT BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.

===== Disposal Considerations =====

Waste Disposal Methods:CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER.

DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. CERCLA SECTION 103 REPORTABLE QUANTITY=1000 LBS. EPA/RCRA HAZARDOUS WASTE NUMBER D00 1 MAY APPLY TO UNUSED/UNCONTAMINATED PRODUCT.

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