

FISHER SCIENTIFIC CO CHEMICAL MFG DIV -- PERMOUNT SOLUTION CAT #:SP15500 --  
8040-00-063-1365

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

Product ID:PERMOUNT SOLUTION CAT #:SP15500

MSDS Date:11/16/1994

FSC:8040

NIIN:00-063-1365

MSDS Number: BWSRC

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC CO CHEMICAL MFG DIV

Address:1 REAGENT LN

City:FAIR LAWN

State:NJ

ZIP:07410-2802

Country:US

Info Phone Num:

201-796-7100/800-766-7000 X3725

Emergency Phone Num:800-424-9300(CHEMTREC)/201-796-7100

Preparer's Name:FISHCER SCIENTIFIC INC

CAGE:2G230

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO

Address:2000 PARK LN

Box:City:PITTSBURGH

State:PA

ZIP:15275

Country:US

Phone:412-490-8586

CAGE:22527

Company Name:FISHER SCIENTIFIC CO CHEMICAL MFG DIV

Address:1 REAGENT LN

Box:City:FAIR LAWN

State:NJ

ZIP:07410-2802

Country:US

Phone:201-796-7100/800-766-7000 X3725

CAGE:2G230

===== Co

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: 44.8%  
Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Report

Effects of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TOLUENE:INHAL/SKIN/EYE

IRRIT.MODERATELY TOXIC BY INGEST;SLIGHTLY TOXIC BY INHAL & DERMAL  
ABSORPTION.STIMULANTS(EPINEPHRINE)MAY INDUCE VENTRICULAR  
FIBRILLATION.,ALCOHOL MAY ENHANCE TOXIC EFFECTS.METABOLISM OF  
OTHER SOLVENTS MAY BE INHIBITEDRESULTING IN POTENTIAL OF TOXIC EFFECTS OF  
CHEM.UPTAKE DIRECTLY PROPORTIONAL TO BODY FAT.(SUPER)

Explanation of Carcinogenicity:PER MSD:CARCINOGEN STATUS:HUMAN  
INADEQUATE EVIDENCE

VIDENCE, ANIMAL INADEQUATE EVIDENCE (IARC GROUP-3).

Effects of Overexposure:INHAL:IRRIT/NARCOTIC/NEUROTOXIN.OLFACTORY

IRIT,IRRIT,FTG,WEAK,CONFUSION,HEAD,NAUSEA,IMPAIRED COORD/RX  
TIME.SKIN:IRRIT.IRRIT,DRYING,DEFATTING,DRY FISSURED DERM.THERMAL  
BURNS,SEVERE TISSUE DAMAGE.EYE:IRRIT,CORNEAL  
BURNS,LACRIMATION,CORNEAL LESIONS,CONJUNCTIVITIS.MECHANICAL  
ABRASION.INGEST:NARCOTIC.BURNING SENSATION IN EPIGASTRIUM,ABDOMINAL SPASM

Medical Conditions Aggravated by Exposure:TARGET ORGANS(TOLUENE):CNS  
DEPRESSANT;NEUROLOGICAL

OTOXIC.POISONING MAY ALSO AFFECT HEART,LIVER,KIDNEYS  
& BLOOD.

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

First Aid:INHAL:REMOVE TO FRESH AIR IMMEDIATELY.GIVE ART RESPIRATION IF  
NECESSARY.KEEP WARM/REST.TREAT SYMPTOMATICALLY/SUPPORTIVE.SKIN:REMOVE  
CONTAMINATED CLOTHING/SHOES IMMEDIATELY.WASH WITH SOAP/MILD DETERGENT/LARGE AMOUNTS OF  
WATER @LEAST 15-20MINUTES.EYES:WASH IMMEDIATELY WITH LARGE AMOUNTS OF WATER/NORMAL  
SALINE OPENING EYELIDS @LEAST 15-20MINUTES.INGEST:VOMIT OCCURRED KEEP  
HEAD LOWER THAN HIPS.TREAT SYMPTOMATICALLY

MPTOMAT/SUPPORT.IN ALL CASES GET MED  
ATTN IMMED.

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

Flash Point:45.0F,7.2C

Lower Limits:1.4

Upper Limits:6.7

Extinguishing Media:CLASSIFIED:1B. DRY CHEMICAL, CARBON DIXOIDE, WATER  
SPRAY OR REG GOAM. LG FIRES:USE WATERSPRAY, FOG, OR REG FOAM.

Fire Fighting Procedures:MOVE CNTNR W/O RISK.COOL CNTNR FIRE-EXPO SIDE  
W/WATER TIL FIRE WELL OUT.MASSIVE FIRE:UNMANNED HOSE HOLDER/MONITOR  
NOZ/WITHDRAW FRM AREA.W/D IMMED IF  
RISING(SUP)

Unusual Fire/Explosion Hazard:DANGEROUS FIRE HAZ WHEN EXPO TO  
HEAT/FLAME.VAP HEAVIER THAN AIR;TRAVEL CONSIDERABLE DISTANCE TO IG  
SOURCE & FLASHBACK.VAP & AIR MIXTURES ARE EXPLOSIVE.

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

Spill Release Procedures:REMOVE IGN SOURCES.STOP LEAK W/O RISK.REDUCE  
VAP W/WATERSPRAY.SM:TAKE UP W/SAND/ABSORBENT MATL.PLACE INTO  
CNTNRS.LG:DIKE.NO SMOKING/FLAMES/FLARES.ISOLATE AREA.RESTRICT  
ENTRY.REPORT TO AUTHORI  
TY/NAT RE SP CNTR 800-424-8802 OF SPILL IF  
CERCLAREPORTABLE

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

Handling and Storage Precautions:OBSERVE ALL LOC/STATE/FED REGS WHEN  
STOREING SUBSTANCE.STORE IAW 29CFR1910.106.AVOID CONTACT  
W/HEAT/SPARK/FLAME/IGN SOURCES.VAP MAY EXPLO.

Other Precautions:AVOID OVERHEATING OF CNTNRS;MAY VIOLENTLY RUPTURE  
INHEAT OF FIRE.AVOID CONTAMINATION OF WATER SOURCES.

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

=====

Respiratory Protection:SELECT SPECIFIC RESP BASED ON CONTAMIN LEVELS IN  
WORKPLACE,MUST NOT EXCEED WORKING LIMITS OF RESP, & JOINTLY  
APPROVED BY NIOSH/MSHA.

Ventilation:PROVIDE LOC EXHA/GEN DILUTION VENTI TO MEET EXPO  
LIMITS.EQPMT SHOULD BE EXPLO-PROOF IF EXPLO CONC OF DUST/MIST  
PRESENT.

Protective Gloves:APPROPRIATE PROTECTIVE GLOVES.

Eye Protection:SPLASH-PROOF/DUST-RESIST SAF GOGG

Other Protective Equipment:EMERG EYEWASH IN WORKING AREA.

Work Hygienic Practices:WASH HA

NDS AFTER HANDLING. LAUNDER CONTAMINATED CLOTHING PRIOR TO REUSE.

Supplemental Safety and Health

FIRE HAZ: SOUND FROM VENT SAFETY DEVICE/TK DISCOLORATION. ISOLATE 1/2 MI ALL DIRECTIONS IF TK/RAILCAR/TK TRUCK IN FIRE. USE FLOODING AMOUNTS OF WATER. AVOID BREATH VAPOR; KEEP UPWIND. HEALTH HAZ: BLOOD LEVELS MAY BE CUMULATIVE WHEN EXPOSURE IS EXTENDED.

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

HCC:F2

Solubility in Water: INSOLUBLE

Appearance and Odor: YELLOW LIQUID, ODOR NOT SPECIFIED BY MFG.

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

Stability Indicator/Materials to Avoid: YES

STRONG OXIDIZERS; STRONG MINERAL ACIDS; PLASTIC/RUBBER/COAT; SULFURIC ACID; NITRIC ACID; SULFUR DICHLORIDE; SILVER PERCHLORATE.

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER. HOWEVER AVOID ALL IGNITION SOURCES.

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

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

Waste Disposal Methods: OBSERVE ALL FEDERAL/STATE/LOCAL REGULATIONS WHEN DISPOSING SUBSTANCE. DISPOSAL MUST BE IN ACCORDANCE WITH APPLICABLE REGULATIONS OF HAZARDOUS WASTE, 40 CFR 262. EPA HAZ WASTE NO: D001. 100 LB CERCLA SEC 103 RQ.

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.