

FISHER SCIENTIFIC CO -- BENZENE -- 6810-00-753-4778

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Product Identification
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Product ID: BENZENE
MSDS Date: 10/08/1996
FSC: 6810
NIIN: 00-753-4778
MSDS Number: CFKRP
=== Responsible Party ===
Company Name: FISHER SCIENTIFIC CO
Address: 585 ALPHA DR
City: PITTSBURGH
State: PA
ZIP: 15238-2911
Country: US
Info Phone Num: 412-526-8300
Emergency Phone Num: 412-526-8300 201-796-7100
CAGE: 22527
=== Contr
actor 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

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Composition/Information on Ingredients
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Ingred Name: BENZENE (SARA 313) (CERCLA)
CAS: 71-43-2
RTECS #: CY1400000
Fraction by Wt: >99%
Other REC Limits: NONE RECOMMENDED
OSHA PEL: SEE 1910.1028
ACGIH TLV: 10 PPM; A2; 9596
EPA Rpt Qty: 10 LBS
DOT Rpt Qty: 10 LBS

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Hazards Identification
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LD50 LC50 Mixture:ORAL, RAT: LD50=930 MG/KG

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

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:EYES- IRRITATION & POSSIBLE CORNEAL INJURY. SKIN- IRRITATION. MAY BE ABSORBED THROUGH SKIN IN HARMFUL AMOUNTS. INGESTION- ASPIRATION HAZARD. MAY CAUSE CNS DEPRESSION & POSSIBLE DEATH. ASPIRATION OF MATERIAL INTO LUNGS MAY CAUSE CHEMICAL PNEUMONITIS. INHALATION- CNS EFFECTS & RESPIRATORY TRACT IRRITATION.

Explanation of Carcinogenicity:CONTAINS B [71-43-2] WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN.

Effects of Overexposure:EYES- BURNING SENSATION, REDNESS, TEARING, INFLAMMATION. SKIN- REDNESS & VESICULATION. INGESTION- EXCITEMENT, FOLLOWED BY HEADACHE, DIZZINESS, DROWSINESS, & NAUSEA. ADVANCED STAGES MAY CAUSE COLLAPSE, UNCONSCIOUSNESS, COMA, & DEATH. INHALATION- HEADACHE, CONVULSIONS, & POSSIBLE DEATH. DROWSINESS & UNCONSCIOUSNESS.

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

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. ORAL:DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE WATER TO DRINK (2-4 CUPS) SEEK IMMEDIATE MEDICAL ATTENTION. IF SPONTANEOUS VOMITING OCCURS, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF VOMITUS INTO LUNGS.

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

Flash Point:12F,-11C

Autoignition Temp:Autoignition Temp Text:928F

Lower Limits:1.3

Upper Limits:7.1

Extinguishing Media:WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE, OR CHEMICAL FOAM.

Fire Fighting Procedures:USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS. WEAR A SELF-CONTAINED BREATHING APPARATUS IN PRESSURE-DEMAND, MSHA/NIOSH APPROVED AND FULL PROTECTIVE GEAR.

Unusual Fire/Explosion Hazard:VAPORS CA

N TRAVEL TO A SOURCE OF IGNITION
AND FLASH BACK. EXTREMELY FLAMMABLE. MATERIAL WILL READILY IGNITE
AT ROOM TEMPERATURE.

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

Spill Release Procedures:USE WATER SPRAY TO DILUTE SPILL TO A
NON-FLAMMABLE MIXTURE. AVOID RUNOFF INTO STORM SEWERS AND DITCHES
WHICH LEAD TO WATERWAYS. WEAR A SELF-CONTAINED BREATHING APPARATUS
& APPROPRIATE PERSONAL PROTECTION. ABSORB SPILL ON INERT MATERIAL
& DISPOSE.

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

Handling and Storage Precautions:REMOVE CONTAMINATED CLOTHING & WASH
BEFORE REUSE. GROUND AND HOOD CONTAINERS WHEN TRANSFERRING
MATERIAL. USE SPARK-PROOF TOOLS & EXPLOSION-PROOF EQUIP
Other Precautions:KEEP AWAY FROM HEAT, SPARKS, AND FLAMES. KEEP AWAY
FROM SOURCES OF IGNITION. STORE IN A TIGHTLY CLOSED CONTAINER.
STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLE
SUBSTANCES. USE ONLY UNDER A CHEMICAL FUME HOOD.

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

Respiratory Protection:FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN
29 CFR 1910.134. ALWAYS USE A NIOSH-APPROVED RESPIRATOR WHEN
NECESSARY.
Ventilation:USE ONLY UNDER A CHEMICAL FUME HOOD.
Protective Gloves:WEAR APPROPRIATE PROTECTIVE CLOTHING.
Eye Protection:PER 29 CFR 1910.133
Other Protective Equipment:PROTECTIVE CLOTHING TO PREVENT SKIN
EXPOSURE.
Work Hygienic Practices:WASH HANDS THOROUGHLY AFTER HANDLING THIS
MATERIAL.
Supplemental Safety and Health
NONE

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

HCC:F3
Boiling Pt:B.P. Text:176F,80C
Melt/Freeze Pt:M.P/F.P Text:42.0F,5.6C
Vapor Pres:100
Vapor Density:2.7
Spec Gravity:0.88
Viscosity:0.647 MPA
Evaporation Rate & Reference:2.8 (ETHER=1)
Solubility in Water:0.18G/100G WATER
Appearance and Odor:COLORLESS LIQUID WITH A SWEET AROMATIC ODOR.

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

Stability Indicator/Materials to Avoid: YES

ARSENIC PENTAFLUORIDE+POTASSIUM METHOXIDE, DIBORANE, HYDROGEN+RANEY
NICKEL, INTERHALOGENS, AND OXIDANTS

Stability Condition to Avoid: IGNITION SOURCES AND EXCESS HEAT.

Hazardous Decomposition Products: IRRITATING AND TOXIC FUMES AND GASES.

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

Waste Disposal Methods: DISPOSE OF IN A MANNER CONSISTENT WITH FEDERAL,
STATE, AND LOCAL REGULATIONS. THIS MATERIAL IS BANNED FROM LAND
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DISPOSAL ACCORDING TO RCRA.

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