PHENOLPHTHALENE

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: PHENOLPHTHALENE
Manufacturer Name: FISHER SCIENTIFIC, CHEMICAL DIV.
Address:
1 REAGENT LANE Box: N/K
City: FAIR LAWN
State: NJ
Zip: 07410
Country: US
Business Phone: 201-796-7100
For information in North America, call: 201-796-7100
Health Phone: 201-796-7100 OR 201-796-7523
Manufacturer MSDS Creation Date:
02/21/1991

SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHENOLPHTHALEIN</td>
<td>77-09-8</td>
<td>100</td>
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</tbody>
</table>

RTECS:
SM8380000
OSHA PEL TWA: NOT ESTABLISHED
ACGIH TLV TWA: NOT ESTABLISHED
ACGIH STEL/Ceiling: N/P
Comments:
Other REC Limits: NONE SPECIFIED ; Ozone Depleting Chemical: N ;

SECTION 3 : HAZARDS IDENTIFICATION

PHENOLPHTHALEIN:

Route of Exposure:
Inhalation: YES Skin: YES Ingestion: YES
Potential Health Effects:
ACUTE-INHALATION/EYE/SKIN: MAY BE IRRITATING. INGESTION: EYELID EDEMA, CONJUNCTIVAL ECCHYMOSIS, PERSISTENT PIGMENTATION & SKIN REACTION WHICH MAY BE SEVERE. IN CHOCOLATE HAS CAUSED HYPOTHERMIA, HYPOTENSION, SEVERE ACIDOSIS, PULMONARY & CEREBRAL EDEMA, COMA & DEATH. CHRONIC-SEVERE ENTERITIS, FAINTING, SKIN RASH & HEMORRHAGE.
Carcinogenicity:
N/R
OSHA Designation: NO
NTP Designation: NO
IARC Designation: NO
Signs/Symptoms:
SEE HEALTH HAZARDS SECTION.
Aggravation of Pre-Existing Conditions:
NOT GIVEN.

LD 50 LC 50 Mixture
LD50 (ORAL RAT) IS UNKNOWN

SECTION 4: FIRST AID MEASURES

First Aid
GET MEDICAL CARE IN ALL CASES. INHALATION: REMOVE TO
FRESH AIR. GIVE CPR IF NEEDED. KEEP PERSON WARM &
QUIET. EYES: IMMEDIATELY FLUSH WITH WATER/ NORMAL
SALINE FOR 15-20 MINUTES HOLDING EYELIDS
OPEN. SKIN: WASH THOROUGHLY WITH SOAP AND
WATER. INGESTION: IF VOMITING OCCURS, KEEP HEAD LOWER
THAN HIPS TO PREVENT ASPIRATION. TREAT
SYMPTOMATICALLY AND SUPPORTIVELY.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point:
NEGLIGIBLE
Flash Point Method:
N/P
Upper Flammable or Explosive Limit: N/R
Lower Flammable or Explosive Limit: N/R
Auto Ignition Temperature: N/R
Extinguishing Media:
USE WATER FOG, CARBON DIOXIDE, ALCOHOL-RESISTANT FOAM, OR DRY CHEMICAL.
Fire Fighting Instructions:
NO ACUTE HAZARD. MOVE CONTAINER FROM FIRE AREA IF POSSIBLE. AVOID BREATHING
VAPORS OR DUSTS. KEEP UPWIND. COOL FIRE EXPOSED CONTAINERS WITH WATER
SPRAY.
Unusual Fire Hazards:
NEGLIGIBLE FIRE HAZARD WHEN EXPOSED TO HEAT OR FIRE.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Leak Response:
NO SPECIAL PRECAUTIONS INDICATED. WEAR SELF-CONTAINED BREATHING APPARATUS
AND FULL PROTECTIVE CLOTHING. WITH CLEAN SHOVEL, CAREFULLY PLACE MATERIAL
INTO CLEAN, DRY CONTAINER AND COVER; REMOVE FROM AREA. AVOID RAISING DUSTS.
Other Precautions:
DO NOT TAKE INTERNALLY. AVOID BREATHING DUST. AVOID CONTACT WITH EYES AND
SKIN. DO NOT GET ON CLOTHING. USE WITH ADEQUATE VENTILATION. WASH
THOROUGHLY AFTER HANDLING.

Neutralizing Agent
SECTION 7: HANDLING and STORAGE

Handling:
STORAGE-KEEP CONTAINER TIGHTLY CLOSED.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Ventilation System:
LOCAL EXHAUST OR MECHANICAL (GENERAL) DILUTION VENTILATION SYSTEM

Hand Protection Description:
BUTYL RUBBER OR PVA

Eye/Face Protection:
DUST-RESISTANT SAFETY GOGGLES & FACESHIELD

Respiratory Protection:
USE NIOSH/MSHA APPROVED DUST & MIST RESPIRATOR WITH A FULL FACEPIECE OR SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED-AIR RESPIRATOR WITH A FULL FACEPIECE OPERATED IN POSITIVE PRESSURE.

Other Protective:
EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Other:
N/P

Work Hygienic Practices
OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:
COLORLESS-YELLOWISH WHITE CRYSTALS

pH:
N/R

Decomposition Temperature:
UNKNOWN

Vapor Pressure:
N/R

Vapor Density:
N/R

Boiling Point:
N/R

Melting Point:
459F, 237C

Solubility In Water:
INSOLUBLE

Specific Gravity:
1.3

Evaporation Point:
N/R
Percent Volatile:
N/R
Viscosity:
N/P
Other:
Corrosion Rate: UNKNOWN
Comment:
NRC/State LIC Number: N/R

HCC
N1

SECTION 10 : STABILITY AND REACTIVITY

Chemical Stability:
YES
Conditions to Avoid:
STABLE UNDER NORMAL TEMPERATURES AND PRESSURE.
Incompatibilities with Other Materials:
ALKALOIDS: MAY BE UNSTABLE.
Hazardous Polymerization:
NO
Hazardous Decomposition Products:
ACRID SMOKE AND IRRITATING FUMES
Conditions To Avoid Polymerization
HAS NOT BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.

SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicological Paragraph:
N/P

SECTION 12 : ECOLOGICAL INFORMATION

Ecological Paragraph:
N/P

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal:
DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

SECTION 14 : TRANSPORT INFORMATION

Transportation Information:
N/P
SECTION 15: REGULATORY INFORMATION

PHENOLPHTHALEIN:
SARA:
  N/P
US Federal:
  N/P
State:
  N/P

SECTION 16: ADDITIONAL INFORMATION

MSDS Author:
  N/P
Disclaimer:
  Please note that although the information, opinions and recommendations contained in these Material Safety Data Sheets are compiled from sources believed to be reliable, we accept no responsibility for the accuracy, sufficiency, or reliability or for any loss or injury resulting from the use of the information. Newly discovered hazards are frequent and this information may not be completely up to date.

Other Information
  N/P

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