Product ID:1,10 PHENANTHROLINE, MONOHYDRATE, T170 MSDS Date:05/01/1989 FSC:6810 NIIN:00-300-6119 **MSDS Number: BVFKY** === Responsible Party === Company Name: J T BAKER INC Address:222 RED SCHOOL LANE City:PHILLIPSBURG State:NJ ZIP:08865 Country:US Info Phone Num:800-582-2537 **Emergency Phone** Num:908-859-2151;800-424-9300(CHEMTREC) CAGE:DO803 === Contractor Identification === Company Name: J T BAKER INC Address:222 RED SCHOOL LANE City:PHILLIPSBURG State:NJ ZIP:08865 Country:US Phone:1-800-582-2537 CAGE:DO803 Company Name: MALLINCKRODT BAKER, INC. Address:222 RED SCHOOL LANE Box:City:PHILLIPSBURG State:NJ ZIP:08865 Country:US Phone:800-582-2537 CAGE:70829

Ingred Name:1,10 PHENANTHROLINE, MONOHYDRATE (MFR RTEC #SF8

300000) CAS:5144-89-8 RTECS #:SF8437000 Fraction by Wt: 90-100% OSHA PEL:N/K ACGIH TLV:N/K

LD50 LC50 Mixture:LD50:(ORAL,RAT) 132 MG/KG. Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE:SKIN/EYE CONTACT:IRRITATION. INGEST:MAY BE HARMFUL. CHRONIC:NONE IDENTIFIED. Explanation of Carcinogenicity:NOT RELEVANT Effects of Overexpo sure:SEE HEALTH HAZARDS. Medical Cond Aggravated by Exposure:NONE IDENTIFIED.

First Aid:INGEST:CALL MD. IF SWALLOWED, IF CONSCIOUS, IMMEDIATELY INDUCE VOMITING. INHAL:REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTF RESP. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SKIN:FLUSH W/WATER. EYES:I MMEDIATELY FLUSH W/PLENTY OF WATER FOR AT LEAST 15 MINUTES.

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Flash Point Method:CC

Extinguishing Media:USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:NONE IDENTIFIED.

Spill Release Procedures:WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT CLTHG. WITH CLEAN SHOVEL, CAREFULLY PLACE MATL INTO CLEAN, DRY CONTAINER & COVER; REMOVE FROM AREA. FLUSH SPILL

## AREA W/WATER. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions: KEEP CONTAINER TIGHTLY CLOSED.
SUITABLE FOR ANY GENERAL CHEMICAL STORAGE AREA.
Other Precautions: CAUSES IRRITATION. HARMFUL IF SWALLOWED. AVOID CONTACT W/EYES, SKIN, CLOTHING. DO NOT BREATHE DUST.

Respiratory Protection:NONE REQUIRED WHERE ADEQUATE VENT ILATION

CONDITIONS EXIST. IF AIRBORNE CONCENTRATION IS HIGH, USE AN APPROPRIATE NIOSH/MSHA APPROVED RESPIRATOR OR DUST MASK. Ventilation:USE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP FUME OR DUST LEVELS AS LOW AS POSSIBLE. VENT HOOD. Protective Gloves:RUBBER GLOVES. Eye Protection:SAFETY GOGGLES. Other Protective Equipment:UNIFORM IS RECOMMENDED. LAB COAT. Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER

Melt/Freeze Pt:M.P/F.P Text:208F,98C Spec Gravity:1.1 (H\*2O=1) Solubility in Water:SLIGHT (0.1-1%) Appearance and Odor:SOLID, WHITE CRYSTALLINE POWDER; ODORLESS. Percent Volatiles by Volume:0

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS, IRON & OTHER HEAVY METALS. Stability Condition to Avoid:NONE DOCUMENTED. Hazardous Decomposition

## Products:OXIDES OF NITROGEN, CARBON MONOXIDE, CARBON DIOXIDE.

Waste Disposal Methods:DISPOSE I/A/W ALL APPLICABLE FEDERAL, STATE & LOCAL ENVIRONMENTAL REGULATIONS.

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