HOFFMANN-LA ROCHE INC -- PROCARBAZINE HYDROCHLORIDE -- 6505-00-175-6061

-----------------------  Product Identification  -----------------------

Product ID: PROCARBAZINE HYDROCHLORIDE
MSDS Date: 07/14/1989
FSC: 6505
NIIN: 00-175-6061
MSDS Number: BNBQR

=== Responsible Party ===
Company Name: HOFFMANN-LA ROCHE INC
Address: 340 KINGSLAND ST
City: NUTLEY
State: NJ
ZIP: 07110-1141
Country: US
Info Phone Num: 201-235-3729 OR 201-235-2377
Emergency Phone Num: 201-235-3729
CAGE: 1V283

=== Contractor Identification ===
Company Name: HOFFMAN-LA ROCHE INC
Address: 340 KINGSLAND ST
City: NUTLEY
State: NJ
ZIP: 07110-1141
Country: US
Phone: 201-235-2323
CAGE: 04493
Company Name: HOFFMANN-LA ROCHE INC.
Address: 200 ROCHE DRIVE
City: BELVIDERE
State: NJ
ZIP: 07823-1112
Phone: (800) 526-0625
CAGE: 1V283

---------------------  Composition/Information on Ingredients  ---------------------

Ingred Name: P-TOLUAMIDE, N-ISOPROPYL-A-(2-METHYLHYDRAZINO)-,
    MONOHYDROCHLORIDE; (BENZAMIDE) (PROCARBAZINE HYDROCHLORIDE
    CHLORIDE)
CAS: 366-70-1
RTECS #: XS4725000
Fraction by Wt: 100%

Ingred Name: SUPP DATA: WOMEN SHOULD EXERCISE CAUTION REGARDING POTNTL
    EXPOS. ALSO ADVISABLE FOR NURSING MOTHERS TO EXERCISE CAUTION.
    RTECS #: 999999999Z

Ingred Name: SPILL PROC: COVER & MOVE CNTNR TO SAFE HOLDING AREA. CLEAN
    SPILL AREA THORO. DECONTAM/DISPOSE OF ALL PROTECTIVE EQUIPMENT.
    RTECS #: 999999999Z

Ingred Name: WASTE DISP METH: REGULATORY AUTHOR BEFORE DETERMINING FINAL
METHOD OF DISP. DISP OF I/A/W FED, STATE & LOCAL REGS.
RTECS #:9999999ZZ

Ingred Name: OTHER PREC: CLOSED CNTNRS UNDER NITROGEN/IN AMBER BOTTLES.
AVOID ALL PERS CNTCT. DO NOT GET IN EYES, ON SKIN OR (ING 6)
RTECS #:9999999ZZ

Ingred Name: ING 5: CLTHG. DO NOT BREATHE DUST. AVOID CREATING DUST WHEN
HNDLG. USE ONLY W/ADEQ VENT. KEEP CNTNR TIGHTLY CLOSED (ING 7)
RTECS #:9999999ZZ

Ingred Name: ING 6: WHEN NOT IN USE. WHEN HNDLG, WEAR PROPER RESP & OTHER
PERS PROTECTIVE EQUIPMENT. FULL BODY SUIT RECOMMENDED.
RTECS #:9999999ZZ

Ingred Name: PROT GLOVES: NOT USE POLYVINYL CHLORIDE. INSPECT FREQUENTLY &
DISCARD WHEN THEY SHOW CUTS, TEARS, PINHOLES/SIGNS OF WEAR.
RTECS #:9999999ZZ

Ingred Name: OTHER PROT EQUIP: FULLY FASTENED DISP LAB COAT/DISP
JUMPSUIT. LAB WORK SURFS SHOULD BE COVERED W/STAINLESS STEEL, (ING 10)
RTECS #:9999999ZZ

Ingred Name: ING 9: PLASTIC TRAYS, DRY ABSORB PLASTIC BACKED PAPER/OTHER
IMPERVIOUS MATL. DECONTAM WORK SURFS & DISPOSE OF (ING 11)
RTECS #:9999999ZZ

Ingred Name: ING 10: PROTECTIVE CLOTHING OR SURFACE COVERING PROPERLY.
EMERGENCY EYEWASH, DELUGE SHOWER.
RTECS #:9999999ZZ

Ingred Name: PH: 3-4 (5% IN H*2O)
RTECS #:9999999ZZ

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

LD50 LC50 Mixture: LD50: (ORAL, RAT) 785 MG/KG.
Routes of Entry: Inhalation: YES Skin: NO Ingestion: YES
Health Hazards Acute and Chronic: ACUTE/CHRONIC: BASED ON SYMPS ASSOC
W/ THERAPEUTIC USE OF MATL, MOST COMMON EFTS ARE: BLOOD CHANGES,
I.E., DECREASE IN NUMBER OF WHITE CELLS & PLATELETS; GI EFTS,
E.G., NAUSEA & VOMIT. OTHER REPORTED EFTS INCLUDE: CENTRAL &
PERIPHERAL NERVOUS SYS EFTS, E.G., NUMBNESS & TINGLING SENSATIONS,
DIZZ; PSYCHO-MOTOR (EFTS OF OVEREXP).
Explanations of Carcinogenicity: PROCARBAZINE HYDROCHLORIDE: GROUP 2
(NTP), GROUP 2A (IARC).
Medical Cond Aggravated by Exposure: PROCARBAZINE HYDROCHLORIDE ALLERGY
HISTORY, IMPAIRED LIVER/KIDNEY FUNCTION; BLOOD DISTURB; BASED ON
THERAPEUTIC USE OF MATL, ADVERSE RXN MAY OCCUR W/ALCOHOLIC BEVERAGES, E.G., INTENSE WARMTH (SUPP DATA)

First Aid Measures

First Aid:EYE: FLUSH W/PLENTY OF WATER. IF IRRIT, CALL MD. SKIN: FLUSH W/PLENTY OF WATER & WASH CNCTCT AREA W/SOAP & WATER. IF IRRIT, CALL MD. REMOVE CONTAMD CLTHG & SHOES & WASH BEFORE REUSE. INHAL: REMOVE TO FRES H AIR. IF DISCOMFORT OCCURS/PERSISTS, CALL MD. INGEST: CALL MD IMMEDIATELY.

Fire Fighting Measures

Extinguishing Media: AS APPROPRIATE FOR FIRE IN SURROUNDING MATERIALS. Fire Fighting Procedures: WEAR NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT. USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL.

Accidental Release Measures

Spill Release Procedures: EVACUATE AREA & DO NOT RETURN UNLESS PROT BY NIOSH/MSHA APPRVD SCBA & PERS PROT CLTHG. SHUT OFF SOURCE OF LEAK/SPILL IF SAFE TO DO SO. AVOID SKIN CNCTCT/BRTHG DUSTS. SCOOP/SHOVEL SPILLED MATL INTO SUIT ABLE LABELED OPEN-HEAD DRUM. SECURE DRUM (ING 3)

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Handling and Storage

Handling and Storage Precautions: UNDERGOES OXIDATION BY ATMOSPHERIC O*2 IN PRESENCE OF MOISTURE/IN AQ SOLN (AUTOXIDATION MAY BE CATALYZED BY METAL IONS, E.G., MANGANESE & COPPER).

Exposure Controls/Personal Protection

Respiratory Protection: USE NIOSH/MSHA APPROVED SUPPLIED-AIR POSITIVE-PRESSURE FULL FACEPIECE RESPIRATOR OR SUPPLIED-AIR HOOD.

Ventilation: LOCAL EXHAUST: SPECIFIC VENTILATION REQUIRED.

Protective Gloves: DISPOSABLE SURGICAL LATEX (DO (ING 8)

Eye Protection: CHEM WORK GOG & FULL LENGTH FSHLD.

Other Protective Equipment: PROD OPS: WEAR FULL BODY SUIT INCLUDG HEAD & FOOT COVERING W/SLEEVES TUCKED UNDER GLOVES & TAPED. FOR LAB OPS: WEAR (ING 9)

Work Hygienic Practices: DECONTAM WORK SURFS & DISPOSE OF PROT CLTHG/SURF COVERING PROPERLY. WASH THOROUGHLY OR SHOWER AFTER HANDLING.

Supplemental Safety and Health

SOL IN H*2O: (200 MG/ML) BUT DECOMPOSES. EFTS OF OVEREXP: CANCER & TERATOGENIC EFTS. MAY AFFECT MALE FERTILITY. MED CDNTNS: & REDDENING OF FACE, AS WELL AS W/CERTAIN FOODS & CERTAIN OTHER
DRUGS. NOTE: SOME MATL MAY AFFECT MALE REPRO CAPABILITY & DEVELOPING FETUS, MALES/FEMALES PLANNING TO HAVE A CHILD & PREGNANT (ING 2)

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

Melt/Freeze Pt:M.P/F.P Text:433F,223C

pH:ING 12

Solubility in Water:VERY SOL (SUPP DATA)

Appearance and Odor:WHITE TO PALE YELLOW CRYSTALLINE POWDER; SLIGHT, CHARACTERISTIC ODOR.

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

Stability Indicator/Materials to Avoid:YES

Hazardous Decomposition Products:TOXIC FUMES OF OXIDES OF NITROGEN AND HYDROGEN CHLORIDE.

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

Waste Disposal Methods:DISPOSE OF AS HAZ WASTE. TRANSPORT TO FED & STATE APPRVD FACILITY FOR TREATMENT, STOR/DISP OF HAZ WASTES. BURN IN CHEM INCIN EQUIPPED W/AFTERBURNER & SCRUBBER. HAZ WASTE MANIFEST MUST BE USED. STATE HAZ WASTE REGS MAY VARY; CHECK W/LOCAL (ING 4)

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