

NATIONAL DRAEGER INC -- HARDENER T9539 -- 8040-01-247-9689

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

Product ID:HARDENER T9539

MSDS Date:09/01/1992

FSC:8040

NIIN:01-247-9689

MSDS Number: BQYMS

=== Responsible Party ===

Company Name:NATIONAL DRAEGER INC

Address:101 TECHNOLOGY DRIVE

City:PITTSBURGH

State:PA

ZIP:15275

Country:US

Info Phone Num:412-787-8389

Emergency Phone Num:800-424-9300 CHEMTREC

CAGE:5383

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=== Contractor Identification ===

Company Name:NATIONAL DRAEGER INC

Address:101 TECHNOLOGY DRIVE

Box:City:PITTSBURGH

State:PA

ZIP:15372

Country:US

Phone:412-787-8383 OR 412-787-8389

CAGE:53833

===== Composition/Information on Ingredients =====

Ingred Name:TRIS (4-ISOCYANATOPHENYL) THIOPHOSPHATE (TT)

CAS:4151-51-3

Fraction by Wt: 20%

Other REC Limits:NONE SPECIFIED

Ingred Name:METHYLENE CHLORIDE (MC) (SARA III)

CAS:75-09-2

RTECS #:PA8050000

Fraction by Wt: 74-79.5%

Other R

EC Limits:NONE SPECIFIED
OSHA PEL:500 PPM
ACGIH TLV:50 PPM
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:MONOCHLOROBENZENE (MCB) (SARA III)
CAS:108-90-7
RTECS #:CZ0175000
Fraction by Wt: 0.5-3.0%
Other REC Limits:NONE SPECIFIED
OSHA PEL:75 PPM
ACGIH TLV:75 PPM
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Hea

lth Hazards Acute and Chronic:NONE UNDER NORMAL CONDITIONS.
INHAL:IRRITANT, NARCOTIC & NEUROTOXIN. SKIN:IRRITANT. IRRIT,
SCALING, CRACKING, REDDENING, SWELLING, RASH, BLISTERING. CURED
MAT'L DIFFICULT TO REMOVE. EYE:IRRITANT, TEAR ING, REDDENING,
SWELLING. INGEST:IRRIT,INTERNAL CORROSIVE ACTION (SORE THROAT,
ABDOM PAIN, NAUSEA, VOMITING, DIARRHEA.
Explanation of Carcinogenicity:MC CLASSIFIED AS ANTICIPATED HUMAN
CARCINOGEN BY NTP. MC IS LISTED IN VOL 41 AS CATEGORY 2B (IA
RC).

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

First Aid:INHAL:REMOVE TO FRESH AIR IMMED. IF BREATH STOPPED, GIVE
ARTIF RESP. GET MED AID IMMED. SKIN:REMOVE CONTAM CLOTH IMMED. WASH
AREA W/SOAP OR MILD DETERGNT & LRG AMT WATER. GET MED AID IMMED.
EYE:WASH E YES IMMED W/LRG AMT WATER OR NORMAL SALINE, LIFTING
EYELIDS. GET MED AID IMMED. INGEST:PREVENT ASPIRATION. MAINTAIN
AIRWAY, BP, RESPRTN. GET MED AID IMMED. QUALIFIED MED PERSONNEL
MUST GIVE

TREATMENT.

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

Flash Point:NONE
Extinguishing Media:DRY CHEMICAL; CARBON DIOXIDE, FOAM, WATER
Fire Fighting Procedures:COOL FIRE EXPOSED CONTAINERS WITH WATER WATER
SPRAY.
Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:TAKE UP WITH INERT ABSORBENT AND PLACE IN
CONTAINER FOR LATER DISPOSAL.

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

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED AND AWAY
FROM HEAT AND IGNITION SOURCES, AND DO NOT SMOKE.
Other Precautions:WATER POLLUTING LIQUID. THE MATERIAL MUST NOT FLOW
INTO WASTE WATER OR SURFACE WATERS.

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

Respiratory Protection:SUPPLIED AIR RESPIRATOR OR SELF-CONTAINED
BREATHING APPARATUS.
Ventilation:PROVIDE LOCAL EXHAUST. SHOULD BE USED TO MAINTAIN LEVELS
BELOW EXPOSURE LIMITS OR GUIDELINES.
Protective Gloves:CHEMICAL RESISTANT GLOVES
Eye Protection:GOGGLES RECOMM WHEN CONTACT POSSIBLE
Other Protective Equipment:CHEM RESISTANT CLOTHING RECOMMENDED WHEN
PHYSICAL CONTACT POSSIBLE. SAFETY SHOWER & EYEWASH STATION SHOULD
BE AVAILABLE.
Work Hygienic Practices:A SAFETY SHOWER AND EYEWASH STATION SHOULD BE
AVAILABLE. IN EVENT CONCENTRATIONS MEET/EXCEED TLVS, USE RESP
PROTECTION.
Supplemental Safety and Health

===== Physical/Chemical P

properties =====

HCC:T4

Spec Gravity:1.32 G/CM3 @23C

Evaporation Rate & Reference:80 (BU AC=1)

Solubility in Water:REACT SLOWLY W/WATER

Appearance and Odor:YELLOWISH LIQUID TO BROWNISH LIQUID WITH ODOR OF SOLVENTS.

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

Stability Indicator/Materials to Avoid:YES

WATER,AMINES,ALCOHOL,ACID,& ALKALI.MC REACTS VIOLENTLY W/UNPROTECTED ALUMINUM & ZINC SURFACES,SODIUM,POTSSIUM,MAGNESIUM.

Stability Condition to Avoid:

AVOID TEMPERATURES ABOVE 40C., OPEN FLAMES

AND WELDING AREAS WHICH CAN CAUSE THERMAL DEGRADATION.

Hazardous Decomposition Products:BY HIGH HEAT & FIRE: CO, NOX, POX, SOX, HCL AND SMALL AMOUNTS OF PHOSGENE AND CHLORINE.

Conditions to Avoid Polymerization:AVOID TEMPERATURES ABOVE 40C.

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

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE WITH STANDARDS APPLICABLE TO GENERATORS OF HAZARDOUS WASTE. CONTACT LICENSED

CHEMICAL WASTE DISPOSAL AGENCY.

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