



HETRON FR 992

Product and Company Identification	Physical and Chemical Properties
Composition/Information on Ingredients	Stability and Reactivity
Hazards Identification	Toxicological Information
First Aid Measures	Ecological Information
Fire Fighting Measures	Disposal Considerations
Accidental Release Measures	Transport Information
Handling and Storage	Regulatory Information
Exposure Controls/Personal Protection	Other Information / Hazmat Info / Hazcom Label

MSDS Safety Information

FSC:	8030
MSDS Date:	05/06/1994
MSDS Num:	BVWBX
Submitter:	N EN
LIIN:	00N053989
Tech Review:	09/27/1995
Status CD:	C
MFN:	01
Article:	N
Kit Part:	N
Responsible Party	34897
Name:	ASHLAND CHEMICAL CO
Box:	2219
City:	COLUMBUS
State:	OH
Zip:	43216
Country:	US
Info Phone Number	614-889-3333
Emergency Phone Number	800-274-5263
Preparer's Name:	N/P
Proprietary Ind:	Y

Review Ind: N
Published: Y
Special Project CD: N
Cage: [34897](#)
Box: 2219
City: COLUMBUS
State: OH
Zip: 43216
Country: US
Phone: 614-790-3333

Ingredients

Cas:
Code:
RTECS #:
Code:
Environmental Wt:
Other REC Limits:
OSHA PEL:
Code:
Code:
Code:
Code:
Ozone Depleting Chemical:

Environmental Wt:
Other REC Limits:
OSHA PEL:
Code:
Code:
Code:
Code:
Ozone Depleting Chemical:

Health Hazards Data

LD50 LC50 Mixture	NONE SPECIFIED BY MANUFACTURER.
Route Of Entry Inds - Inhalation:	YES
Skin:	YES
Ingestion:	YES
Carcinogenicity Inds - NTP:	NO
IARC:	YES
OSHA:	NO
Health Hazards Acute And Chronic	ACUTE: EYES: EXPOS TO LIQ/VAP CAUSES EYE IRRIT. SYMPS MAY INCL STINGING, TEARING, REDNESS, & SWELLING. SKIN: EXPOS CAUSES SKIN IRRIT. PRLNGD/RPTD EXPOS MAY DRY SKIN. SYMPS MAY INCL REDNESS, BURNING, DRYING & CRACKING, SKIN BURNS & SKIN DMG. SKIN ABSORP I POSS, BUT HARMFUL EFTS ARE NOT EXPECTED FROM (EFTS OF OVEREXP)
Explanation Of Carcinogenicity	USERS OF "L" VERSION OF HMIS SHOULD CONSULT "LR" VERSION (ING 25).
Signs And Symptoms Of Overexposure	HLTH HAZ:ROUTE OF EXPOS UNDER NORM CNDTNS OF HNDLG & USE. INHAL: EXPOS TO VAP/MIST IS POSS. SHORT-TERM INHAL TOX IS LOW. BRTHG SML AMTS DURING NORM HNDLG IS NOT LIKELY TO CAUSE HARMFUL EFTS; BRTHG LRG AMTS MAY BE HARMFUL. SYMPS OF EXPOS MAY INCL: IRRIT (OSE, THROAT, RESP TRACT), METALLIC TASTE, IMPAIRED COORD, (ING 8)
Medical Cond Aggravated By Exposure	PRE-EXISTING SKIN DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL. PRE-EXISTING LUNG DISORDERS, E.G. ASTHMA-LIKE CONDITIONS, MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL.

First Aid

SKIN: REMOVE CONTAMD CLTHG. FLUSH EXPOS AREA W/LRG AMTS OF WATER. IF SKIN IS DMGD, SEEK IMMED MED ATTN. IF SKIN IS NOT DMGD & SYMPS PERSIST, SEEK MED ATTN. LAUNDER CLTHG BEFORE REUSE. EYE: IF SYMPS DEVELOP, MOVE INDIV AWAY FROM EXPOS & INTO

FRESH AIR. FUSH EYES W/WATER FOR AT
LST 15 MINS WHILE HOLDING EYELIDS
APART. IF SYMPS PERSIST, SEEK MED
ATTN. INGEST: DO NOT INDUCE VOMIT.
MATL IS AN (ING 17)

Spill Release Procedures

SML SPILL: ABSORB LIQ ON VERMICULITE,
FLOOR ABSORB, OR OTHER ABSORB MATL
& TRANSFER TO HOOD. LRG SPILL: ELIM
ALL IGNIT SOURCES (FLARES, FLAMES
INCL PILOT LIGHTS, ELEC SPARKS).
PERSONS NOT WEARING PROT EQUIP
SHOULD BE EXCLUDED FROM AREA OF
(ING 21)

Neutralizing Agent

NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods

Handling and Storage Precautions

Other Precautions

EXPOS TO AEROSOLS AND MISTS WHEN
MATERIAL IS SPRAYED MAYPRESENT
GREATER RISK OF INJURY FROM
COMPONENTS BECAUSE
HIGHERCONCENTRATIONS ARE IN
ATMOSPHERE THAN RESULT FROM VAP
ALONE. PROVIDE ADEQVENT AND IF
NECESSARY, USE RESPIRATORY PROT.

Fire and Explosion Hazard Information

Flash Point Method:	N/P
Flash Point:	
Flash Point Text:	>73F,>22.8C
Autoignition Temp:	
Autoignition Temp Text:	N/A
Lower Limits:	1.1%

Upper Limits:	6.1%
Extinguishing Media	REGULAR FOAM OR WATER FOG OR CARBON DIOXIDE OR DRY CHEMICAL.
Fire Fighting Procedures	WEAR NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N).
Unusual Fire/Explosion Hazard	VAPS ARE HVR/AIR & MAY TRAVEL ALONG GROUND/MAY BE MOVED TO VENT & IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELEC MOTORS, STATIC (SUPDAT)

Control Measures

Ventilation	PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).
Protective Gloves	POLYVINYL ALCOHOL GLOVES.
Eye Protection	ANSI APPRVD CHEM WORKER GOGGLES (FP N).
Other Protective Equipment	NORMAL WORK CLOTHING COVERING ARMS AND LEGS.
Work Hygienic Practices	NONE SPECIFIED BY MANUFACTURER.
Supplemental Safety and Health	USERS OF "L" VERSION OF HMIS TO CONSULT "LR" VERSION FOR ADDNL INFO (FP N).SPEC GRAV: 1.178 @ 77F (25C). WASTE DISP METH: DEPOSITED IN LANDFILL I/A/W LOC,ST & FED REGS. RESP PROT: SPECIFIED CNDTNS (SEE YOUR INDUS HYGIENIST). ENGINEERING/ADM IN CNTRLS SHOUD BE IMPLEMENTED TO REDUCE EXPOS. EXPLO HAZ: DISCHARGE,OR (ING 3)

Physical/Chemical Properties

HCC:	F4
NRC/State LIC No:	
Net Prop WT For Ammo:	
Boiling Point:	
B.P. Text:	293F,145C

Reactivity Data

Stability Indicator:	YES
Stability Condition To Avoid:	NONE SPECIFIED BY MANUFACTURER.
Materials To Avoid:	STRONG ALKALIES, STRONG MINERAL ACIDS.
Hazardous Decomposition Products:	MAY FORM TOXIC MATERIALS; CARBON DIOXIDE AND CARBON MONOXICE, VARIOUS HYDROCARBONS, ETC.
Hazardous Polymerization Indicator:	NO

Toxicological Information

Toxicological Information: N/P

Ecological Information

Ecological: N/P

MSDS Transport Information

Transport Information: N/P

Regulatory Information

Sara Title III Information: N/P
Federal Regulatory Information: N/P
State Regulatory Information: N/P

Other Information

Other Information: N/P

HMIS HAZCOM Label

Product Name:	HETRON FR 992
Cage:	34897
Assigned IND:	N
Company Name:	ASHLAND CHEMICAL CO
Street:	
PO Box:	2219
City:	COLUMBUS
State:	OH
Zipcode:	43216
Country:	US
Health Emergency Phone:	800-274-5263
Label Required IND:	Y
Date Of Label Review:	10/14/1994
Status Code:	C
MFG Label NO:	
Label Date:	10/14/1994
Year Procured:	N/K
Origination Code:	G
Chronic Hazard IND:	Y
Eye Protection IND:	YES
Skin Protection IND:	YES
Signal Word:	DANGER
Respiratory Protection IND:	YES
Health Hazard:	Moderate
Contact Hazard:	Moderate
Fire Hazard:	Severe
Reactivity Hazard:	None

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