

PENETONE CORP -- PENAIR HD-1 -- 6850-01-390-7816

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

Product ID: PENAIR HD-1
MSDS Date: 03/16/1995
FSC: 6850
NIIN: 01-390-7816
Status Code: A
MSDS Number: CKJHR
=== Responsible Party ===
Company Name: PENETONE CORP
Address: 74 HUDSON AVE
City: TENAFLY
State: NJ
ZIP: 07670
Country: US
Info Phone Num: 201-567-3000
Emergency Phone Num: 201-567-3000
Resp. Party Other MSDS Num.: 1864-503L
Preparer's Name: C. GOOD
Chemtrec Ind/Phone: (800)424-9300
CAGE: 56883

==== Contractor Identification ====
Company Name: PENETONE CORP
Address: 74 HUDSON AVE
Box: City: TENAFLY
State: NJ
ZIP: 07670
Country: US
Phone: 201-567-3000
Contract Num: SP0450-00-M-SA47
CAGE: 56883
Company Name: PENETONE CORP
Address: 74 HUDSON AVE
Box: City: TENAFLY
State: NJ
ZIP: 07670
Country: US
Phone: 201-567-3000
Contract Num: SP0450-00-M-SC98
CAGE: 56883

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

Ingred Nam

e:D-LIMONENE
CAS:5989-27-5
RTECS #:GW6360000
Minumum % Wt:25.
Maxumum % Wt:30.
Other REC Limits:NOT PROVIDED

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

LD50 LC50 Mixture:NOT PROVIDED
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:POTENTIAL HEALTH EFFECTS: EYE: MAY CAUSE IRRITATION TO EYES ON PROLONGED CONTACT. HIGH VAPOR CONCENTRATIONS MAY BE IRRITATING. SKIN: FREQUENT/PROLONGED CONTACT MAY IRRITATE/DRY SKIN, OR CAUSE DERMATITIS. INHALATION: HIGH VAPOR/AEROSOL CONCENTRATIONS ARE IRRITATING TO RESPIRATORY TRACT AND MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS. INGESTION: SMALL AMOUNTS OF THIS LIQUID MAY BE DRAWN INTO THE LUNGS BY EITHER SWALLOWING OR VOMITING. THIS MAY CAUSE SEVERE AND DELAYED HEALTH EFFECTS SUCH AS INFLAMMATION OF THE LUNGS AND INFECTION OF THE BRONCHI. INGESTION MAY CAUSE IRRITATION OF DIGESTIVE TRACT. CHRONIC: MAY CAUSE LIVER AND KIDNEY DMAGE.

Explanation of Carci
nogenicity:PENAIR HD-1 DOES NOT CONTAIN ANY COMPONENT LISTED AS A CARCINOGEN BY IARC, NTP OR OSHA.

Effects of Overexposure:EYE: MAY CAUSE IRRITATION TO EYES ON PROLONGED CONTACT. HIGH VAPOR CONCENTRATIONS MAY BE IRRITATING. SKIN: FREQUENT OR PROLONGED CONTACT MAY IRRITATE OR DRY THE SKIN, OR CAUSE DERMATITIS. INHALATION: HIGH VAPOR/AEROSOL CONCENTRATIONS ARE IRRITATING TO THE RESPIRATORY TRACT AND MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS. INGESTION: SMALL AMOUNTS OF THIS LIQUID MAY BE DRAWN INTO THE LUNGS BY EITHER SWALLOWING OR VOMITING. THIS MAY CAUSE SEVERE AND DELAYED HEALTH EFFECTS SUCH AS INFLAMMATION OF THE LUNGS AND INFECTION OF THE BRONCHI. INGESTION MAY CAUSE IRRITATION OF DIGESTIVE TRACT.

Medical Cond Aggravated by Exposure:SKIN CONTACT MAY AGGRAVATE AN EXISTING DERMATITIS CONDITION.

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

First Aid:EYE: FLUSH EYES WITH LARGE AMOUNT OF WATER. SEE PHYSICIAN IMMEDIATELY

IATELY. SKIN: FLUSH SKIN WITH LARGE AMOUNT OF WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. IF SKIN IRRITATION DEVELOPS OR PERSISTS, CONSULT PHYSICIAN. INHALATION: REMOVE PERSON TO FRESH AIR. ADMINISTER OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. CALL A PHYSICIAN IMMEDIATELY. INGESTION: IF SWALLOWED, GIVE PLENTY OF MILK OR WATER. DO NOT INDUCE VOMITING. USE A STOMACH PUMP. CALL A PHYSICIAN IMMEDIATELY.

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===== Fire Fighting Measures =====
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Flash Point Method:PMCC

Flash Point:=51.7C, 125.F

Autoignition Temp:Autoignition Temp Text:N/D

Lower Limits:N/D

Upper Limits:N/D

Extinguishing Media:EITHER ALLOW FIRE TO BURN OUT UNDER CONTROLLED CONDITIONS OR EXTINGUISH WITH WATER, FOAM OR DRY CHEMICAL.

Fire Fighting Procedures:EITHER ALLOW FIRE TO BURN OUT UNDER CONTROLLED CONDITIONS OR EXTINGUISH WITH WATER, FOAM OR DRY CHEMICAL. COOL EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTIBLE LIQUID. CAN FORM FLAMMABLE

MIXTURES AT OR ABOVE THE FLASH POINT. CONTAINERS CAN RUPTURE AND EXPLODE UNDER FIRE CONDITIONS DUE TO PRESSURE AND VAPOR BUILDUP.

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===== Accidental Release Measures =====
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Spill Release Procedures:LAND SPILL: ELIMINATE SOURCES OF IGNITION. FOR SMALL SPILL, USE ABSORBENT MATERIAL SUCH AS TOWELS OR ABSORBENT POWDERS. PUT ALL MATERIAL INTO PROPER WASTE DISPOSAL CONTAINER WITH LID TIGHTLY COVERED. FOR LARGER SPILLS, CONTAIN SPILL, RECOVER

FREE LIQUID AND USE ABSORBENT MATERIAL TO DRY AREA. PUT ALL MATERIAL INTO APPROPRIATE WASTE CONTAINERS.

Neutralizing Agent:NOT PROVIDED

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===== Handling and Storage =====
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Handling and Storage Precautions:STORAGE TEMPERATURE = AMBIENT. DO NOT STORE AT TEMPERATURES CONSISTENTLY ABOVE 120F, OR BELOW 32F TO ENSURE PRODUCT INTEGRITY. IF PRODUCT FREEZES, THAW AND MIX BEFORE USING. KEEP AWAY FROM ARTIFICIAL HEAT SOURCES, OPEN FLAME

S, AND

OTHER IGNITION SOURCES. DO NOT STORE NEAR STRONG OXIDANTS.

Other Precautions:NOT PROVIDED

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

Respiratory Protection:IF VENTILATION IS INADEQUATE, AN ORGANIC VAPOR MASK SHOULD BE USED.

Ventilation:NONE NEEDED UNDER NORMAL USE CONDITIONS. ADEQUATE VENTILATION MUST BE PROVIDED IN CONFINED AREAS.

Protective Gloves:SOLVENT RESISTANT GLOVES SHOULD BE USED.

Eye Protection:SAFETY GLASSES ARE RECOMMENDED FOR ALL WORKPLA
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CONDITIONS.

Other Protective Equipment:DEPENDING ON HOW THE PRODUCT IS USED, OTHER PROTECTIVE GEAR, INCLUDING SPLASH PROOF GOGGLES OR FACESHIELD, RUBBER BOOTS, APRON, GAUNTLETS, OR RAIN GEAR SHOULD BE WORN.

Work Hygienic Practices:NOT PROVIDED

Supplemental Safety and Health

FOR ENCLOSED WORK SPACES, OR WHERE LARGE AMOUNTS OF THE PRODUCT ARE BEING USED, THE USE OF FANS OR OTHER MECHANICAL VENTILATION IS RECOMMENDED. AVOID BREATHING OF VAPORS AND SPRAY MIST. USE COARSE
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PR AY ONLY. DO NOT FOG THIS PRODUCT.

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

HCC:F4

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=100.C, 212.F

B.P. Text:ABOUT

Melt/Freeze Pt:M.P/F.P Text:NOT PROVIDED

Decomp Temp:=204.4C, 400.F

Vapor Pres:EQUAL TO WATER

Vapor Density:=TO WATER

Volatile Org Content %:50

Spec Gravity:0.95

pH:9.0

Viscosity:NOT PROVIDED

Evaporation Rate & Reference:EQUAL TO WATER

Solubility in Water:EMULSIFIES

Appearance and Odor:CLEAR AMBER LIQUID WIT

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Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:STRONG OXIDIZING AGENTS.

Hazardous Decomposition Products:SMOKE, FUMES, AND OXIDES OF CARBON.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:INFLAMMATION OF MUCOUS MEMBRANES AND
RESPIRATOR

Y TRACT MAY OCCUR UPON PROLONGED BREATHING OF MIST.

INGESTION OF LARGE AMOUNTS OF D-LIMONENE HAS CAUSED KIDNEY AND
LIVER DAMAGE IN MALE RATS BUT NOT IN FEMALE RATS OR MICE OF BOTH
SPECIES.

===== Ecological Information =====

Ecological:NOT PROVIDED

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

Waste Disposal Methods:RCRA HAZARD CLASS: D001 IGNITABLE HAZARDOUS
WASTE.

===== MSDS Transport Information =====

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Transport Information:DEPARTMENT OF TRANSPORTATION (DOT): PROPER
SHIPPING NAME: COMBUSTIBLE LIQUID, N.O.S. (CONTAINS D-LIMONENE),
HAZARD CLASS: COMBUSTIBLE LIQUID. IDENTIFICATION NUMBER: NA1993,
PACKING GROUP: III. LABEL: NOT REQUIRED FOR NONBULK. INTERNATIONAL
REGULATIONS: PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S.
(CONTAINS D-LIMONENE). HAZARD CLASS: 3, IDENTIFICATION NUMBER:
UN1993, PACKING GROUP: III. LABEL: FLAMMABLE. NOTE: INTERNATIONAL
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REGULATIONS MUST BE USED FOR ALL AIR AND SEA-GOING VESSEL SHIPMENTS.

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===== Regulatory Information =====

SARA Title III Information:311/312 HAZARD CATEGORIES: ACUTE HEALTH, CHRONIC HEALTH, FIRE. 313 REPORTABLE INGREDIENTS: DIETHYLENE GLYCOL MONOBUTYL ETHER CAS# 112-34-5, 10-15%.

Federal Regulatory Information:CERCLA: THIS PRODUCT DOES NOT CONTAIN ANY CERCLA REPORTABLE MATERIALS. CHECK WITH LOCAL AND STATE AUTHORITIES TO DETERMINE IF OTHER REP

ORTING REQUIREMENTS ARE

APPLICABLE. RCRA HAZARD CLASS: D001 IGNI TABLE HAZARDOUS WASTE.

TSCA: THE INGREDIENTS IN THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.

State Regulatory Information:NEW JERSEY RIGHT-TO-KNOW INFORMATION: THIS PRODUCT CONTAINS WATER (CAS#7732-18-5), D-LIMONENE (CAS# 5989-27-5), POTASSIUM FATTY ACID SOAP (CAS# 61790-44-1), DIETHYLENE GLYCOL MONOBUTYL ETHER (CAS#112- 34-5), AND NONYLPHENOL ETHOXYLATE (CAS#9016-45-9). CALIFORNIA PROPOSITION 65 INFO

RMATION: THIS

RPRODUCT DOES NOT CONTAIN ANY CHEMICALS RECOGNIZED BY THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR BIRTH DEFECTS OR REPRODUCTIVE HARM.

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===== Other Information =====

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