

PENETONE CORP -- PENSOLV SAFE 150 -- 6850-01-412-5579

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

Product ID:PENSOLV SAFE 150

MSDS Date:09/03/1997

FSC:6850

NIIN:01-412-5579

Status Code:A

MSDS Number: CKFXT

==== 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 N

um.: MSDS NO. 478587-7098

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-D814

CAGE: 56883

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

Ingred Name: 1,1-DICHLORO-1-FLUOROETHANE

CAS: 1717-00-6

RTECS #: KI0997000

Other REC Limits: 500 PPM 8 HR TWA

Ozone Depleting Chemical: 2

Ingred Name: CARBON DIOXIDE

CAS: 124-3

RTECS #:FF6400000

OSHA PEL:9000 MG/M3;5000 PPM

ACGIH TLV:9000 MG/M3;5000 PPM

ACGIH STEL:54000 MG/M3

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

LD50 LC50 Mixture:NONE PROVIDED BY MFR.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:EYE: SLIGHTLY IRRITATING BUT DOES NOT INJURE EYE TISSUE. SKIN: FREQUENT OR PROLONGED CONTACT MAY IRRITATE OR DRY THE SKIN OR CAUSE DERMATITIS. INHALATION: HIGH VAPOR/AEROSOL CONCENTRA

TIONS (GREATER THAN THE TLV) ARE IRRITATING TO THE RESPIRATORY TRACT. INGESTION: SMALL AMOUNTS OF THIS LIQUID MAY BE DRAWN INTO THE LUNGS BY EITHER SWALLOWING OR VOMITING. THIS MAY CAUSE SEVERE & DELAYED HEALTH EFFECTS SUCH AS INFLAMMATION OF THE LUNGS & INFECTION OF THE BRONCHI. INGESTION MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT. CHRONIC: CHRONIC: MILD REVERSIBLE LIVER EFFECTS & CARDIAC ARRHYTHMIAS.

Explanation of Carcinogenicity:NONE PROVIDED BY MFR.

Effects of Overex

posure:DERMATITIS, HEADACHES, DIZZINESS, ANESTHESIA, DROWSINESS, UNCONSCIOUSNESS & OTHER CENTRAL NERVOUS SYSTEM EFFECTS. IRRITATION OF EYES AND SKIN. VOMITING AND DIARRHEA.

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

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

First Aid:EYE: FLUSH WITH LARGE AMOUNTS OF WATER. SEE PHYSICIAN IMMEDIATELY. SKIN: FLUSH WITH LARGE AMOUNTS OF WATER. USE SOAP IF AVAILABLE

. REMOVE CONTAMINATED CLOTHING & 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: DO NOT INDUCE VOMITING. USE A STOMACH PUMP. CALL A PHYSICIAN IMMEDIATELY.

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

Flash Point Method:TCC

Flash Point:NONE-TO-BOIL

Autoignition Temp:Autoignition Tem

p Text:NOT DE

Lower Limits:NOT DETERMIN

Upper Limits:NOT DETERMIN

Extinguishing Media:WATER, FORM OR DRY CHEMICAL.

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

Unusual Fire/Explosion Hazard:AEROSOL CANS ARE UNDER PRESSURE.

CONTAINERS CAN RUPTURE AND EXPLODE UNDER FIRE CONDITIONS DUE TO PRESSURE AND VAPO

R BUILDUP.

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

Spill Release Procedures:LAND: FOR SM SPILLS, USE ABSORBENT MATERIAL SUCH AS TOWELS OR ABSORBENT POWDERS. PUT ALL MATERIAL INTO PROPER WASTE DISPOSAL CONTAINER WITH LID TIGHTLY COVERED. FOR LG SPILLS, DIKE SPILL, RECOVER FREE LIQUID, & USE ABSORBENT MATERIAL TO DRY AREA. PUT ALL MATERIAL INTO APPROPRIATE WASTE CONTAINERS. WATER SPILL:THIS PRODUCT IS HEAVIER THAN WATER & WILL SINK. RECOVERY MAY

BE DIFFICULT.

Neutralizing Agent:NONE PROVIDED BY MFR.

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

Handling and Storage Precautions:DO NOT STORE ABOVE 120 DEG F. KEEP AWAY FROM HEAT SOURCES, OPEN FLAMES, SPARKS, AND DIRECT SUNSHINE. PROLONGED EXPOSURE TO DIRECT SUNSHINE OR STORAGE ABOVE 120 DEG F MAY CAUSE CANS TO BURST. DO NOT PUNCTURE OR INCINERATE CAN. DO NOT STORE NEAR STRONG OXIDANTS OR ALKALIES.

Other Precautions:NONE PROVIDED BY MFR.

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

Respiratory Protection:NONE PROVIDED BY MFR.

Ventilation:NONE NEEDED UNDER NORMAL USE CONDITIONS. FOR ENCLOSED AREAS USE OF FANS OR OTHER MECHANICAL VENTILATION IS RECOMMENDED.

Protective Gloves:SOLVENT RESISTANT GLOVES (FVA OR NEOPRENT) ARE RECOMMENDED

Eye Protection:SAFETY GLASSES ARE RECOMMENDED

Other Protective Equipment:NONE PROVIDED BY MFR.

Work Hygienic Practices:LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental S

safety and Health

NONE

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

HCC:V2

Boiling Pt:=21.1C, 70.F

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

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:> 100 (MM HG @ 20 DEG C)

Vapor Density:>1 (AIR=1)

Spec Gravity:1.4 @ 75 DEG F

Viscosity:NOT PROVIDED

Evaporation Rate & Reference:ABOUT 1 (ACTONE=1)

Solubility in Water:SLIGHT

Appearance and Odor:CLEAR COLORLESS LIQUID WITH MILD ETHEREAL ODOR

Percent Volatiles by Volume:NOT PROVIDED

Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS AND ALKALES. REACTIVE METALS.

Stability Condition to Avoid:AVOID OPEN FLAMES AND HIGH TEMPERATURES.

Hazardous Decomposition Products:CARBON MONOXIDE AND DIOXIDE. HYDROGEN CHLORIDE (HCl), AND HYDROGEN FLUORIDE (HF), AND POSSIBLE TRACE OF CARBONYL HALIDE

Conditions to Avoid Polymerization:WILL NOT OCCUR

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Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS.

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

Transport Information:PSN: CONSUMER COMMODITY, 9, UN8000

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

SARA Title III Information:311/312 HAZ CLASS: ACUTE HEALTH, FIRE. SEC 313 REPORTABLE INGREDIENTS: CARBON DIOXIDE (10%), 1,1-DICHLORO-1-FLUOROETHANE