

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

8-9
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 DERMATILIS. INHALATION: HIGH VAPOR/AEROSOL CONCENTRA
TIONS (GREATER TH AN THE TLV) ARE IRRITATING TO THE RESPIRATORY TRACT. INGESTION: SM AMOUNTS OF THIS LIQUID MAY BE DRAWN INTO THE LUNGS BY EITHER SWALLOWING OR VOMITING. THIS MAY CAUSE SEVERE & DELAYED HEALTH EFFECTS SU CH 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 IRRITATI ON 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 VOMITI NG. 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 PU NCTURE 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

afety 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 FLUCRIDE (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 REPOTABLE INGREDIENTS: CARBON DIOXIDE (10%),
1,1-DICHLORO-1-FLUOROETHANE