



FREEMAN 90-1 RED

MSDS Number

BBPVQ

National Stock Number

8010-00F004249

Product Name

FREEMAN 90-1 RED

Manufacturer

FREEMAN MFG AND SUPPLY COMPANY

Product Identification

Product ID:FREEMAN 90-1 RED

MSDS Date:08/28/1989

FSC:8010

NIIN:00F004249

MSDS Number: BBPVQ

Responsible Party

FREEMAN MFG & SUPPLY COMPANY

1246 WEST 70TH STREET

CLEVELAND , OH 44102-2097

Emergency Phone: (216) 961-4200

Info Phone: (216) 961-4200

Cage: EO795

Contractor

FREEMAN MFG AND SUPPLY CO

AVON, OH 44011

US

440-934-1902

Cage: 1F275

Ingredients

METHYL ISOBUTYL KETONE (SARA III)

CAS: 108-10-1

RTECS: SA9275000

Fraction By Weight:

OSHA PEL100 PPM/75 STEL

ACGIH TLV: 50 PPM/75 STEL; 9293

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

ISOPARAFFINIC HYDROCARBONS (NAPHTHA PETROLEUM),

CAS: 64742-48-9

Fraction By Weight: 10%

ACGIH TLV: 300 PPM



TOLUENE (SARA III)

CAS: 108-88-3

RTECS: XS5250000

Fraction By Weight: 5 - 10%

OSHA PEL200 PPM/150 STEL

ACGIH TLV: 50 PPM; 9293

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

DIIOSONONYL PHTHALATE

CAS: 28553-12-0

Fraction By Weight:

2-BUTOXYETHANOL

CAS: 111-76-2

RTECS: KJ8575000

Fraction By Weight:

OSHA PELS, 50 PPM

ACGIH TLV: S, 25 PPM; 9293

ISOBUTYL ALCOHOL (SARA III)

CAS: 78-83-1

RTECS: NP9625000

Fraction By Weight:

OSHA PEL100 PPM

ACGIH TLV: 50 PPM; 9293

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

ISOPROPYL ACETATE

CAS: 108-21-4

RTECS: AI4930000

Fraction By Weight:

OSHA PEL250 PPM/310 STEL

ACGIH TLV: 250 PPM/310STEL;9192

5.37 LB/GAL (644 GR/LT)

RTECS: 9999999VO

METHYL ETHYL KETONE (2-BUTANONE) (MEK) (SARA III)

CAS: 78-93-3

RTECS: EL6475000

Fraction By Weight: 10 - 20%



OSHA PEL200 PPM/300 STEL
ACGIH TLV: 200 PPM/300STEL 9192
EPA Report Quantity: 5000 LBS
DOT Report Quantity: 5000 LBS

N-AMYL ACETATE (SARA III)
CAS: 628-63-7
RTECS: AJ1925000
Fraction By Weight: 20%
OSHA PEL100 PPM
ACGIH TLV: 100 PPM; 9192
EPA Report Quantity: 5000 LBS
DOT Report Quantity: 5000 LBS

ISOPROPYL ALCOHOL (SARA III)
CAS: 67-63-0
RTECS: NT8050000
Fraction By Weight: 15%
OSHA PEL400 PPM/500 STEL
ACGIH TLV: 400 PPM/500STEL;9192

Hazards

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHALATION: ANESTHETIC, RESPIRATORY TRACT IRRITATION, NERVOUS SYSTEM DEPRESSION, HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION, UNCONSCIOUSNESS OR COMA. SKIN/EYES: IRRITATION.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:INHALATION: ANESTHETIC, RESPIRATORY TRACT, NERVOUS SYSTEM DEPRESSION, HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION, UNCONSCIOUSNESS OR COMA. SKIN/EYES: IRRITATION.
Medical Cond Aggravated by Exposure:ANY MEDICAL CONDITION, ALLERGY OR SENSITIZATION CAN BECOME WORSE UPON EXPOSURE.

First Aid

First Aid:INHALATION: REMOVE FROM EXPOSURE. RESTORE BREATHING. KEEP WARM/QUIET. INGESTION: DON'T INDUCE VOMITING. EYES: FLUSH W/LARGE AMOUNTS OF WATER FOR 15 MINS. SKIN: WASH AFFECTED AREAS THOROUGHLY W/SOAP & WATER. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Fire Fighting

Flash Point Method:TCC
Flash Point:25F
Lower Limits:0.9%
Upper Limits:2.0%
Extinguishing Media:FOAM, CO2, DRY CHEMICAL
Fire Fighting Procedures:WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE. COOL FIRE-EXPOSED CONTAINERS W/WATER.
Unusual Fire/Explosion Hazard:KEEP CONTAINERS TIGHTLY CLOSED. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. DON'T APPLY TO HOT SURFACES.

Accidental Release



Spill Release Procedures: REMOVE ALL SOURCES OF IGNITION. VENTILATED AREA. REMOVE W/INERT ABSORBENT & NON-SPARKING TOOLS.

Handling

Handling and Storage Precautions: DON'T STORE >120F. GROUND CONTAINERS WHEN POURING. AVOID FREE FALL OF LIQUID IN EXCESS OF A FEW INCHES. DON'T FLAME CUT, BRAZE OR WELD.

Other Precautions: EMPTIED CONTAINERS MAY RETAIN HAZARDOUS RESIDUE & EXPLOSIVE VAPORS. STORE LARGE QUANTITIES IN BLDGS DESIGNED & PROTECTED FOR STORAGE OF NFPA CLASS LIQUIDS. SMOKE IN SMOKING AREAS ONLY.

Exposure Controls

Respiratory Protection: IN OUTDOORS OR OPEN AREAS USE BUREAU OF MINES APPROVED MECHANICAL FILTER RESPIRATOR TO REMOVE SOLID AIRBORNE PARTICLES OF OVERSPRAY DURING SPRAY APPLICATION. IN CONFINED AREAS USE BUREAU OF MINES APPROVED AIR LINE RESPIRATORS.

Protective Gloves: RUBBER, NEOPRENE

Eye Protection: CHEMICAL SPLASH GOGGLES

Other Protective Equipment: IMPERVIOUS CLOTHING & BOOTS

Work Hygienic Practices: WASH HANDS BEFORE EATING OR USING THE WASHROOMS. REMOVE CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

Chemical Properties

Boiling Pt: B.P. Text: 174-485F

Vapor Density: >1.0

Spec Gravity: 1.0

Solubility in Water: NEGLIGIBLE

Appearance and Odor: RED LIQUID/AROMATIC HYDROCARBON.

Stability

Stability Indicator/Materials to Avoid: YES

Stability Condition to Avoid: HEAT, ELECTRICAL EQUIPMENT, SPARKS, OPEN FLAMES, HOT SURFACES, HIGH TEMPERATURES, SOURCES OF IGNITION. DON'T STORE >120F

Hazardous Decomposition Products: CO₂, OXIDES OF NITROGEN

Disposal

Waste Disposal Methods: DISPOSE IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS. INCINERATE IN APPROVED FACILITY. DON'T INCINERATE CLOSED CONTAINERS.

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