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MARKAL -- MARKEL SHARPIE #15 - ALL COLORS - SEE SUPP DATA
MATERIAL SAFETY DATA SHEET

MARKAL

AS OF January 1999

NSN: 7520012650116

Manufacturer's CAGE: 94858

Part No. Indicator: A

Part Number/Trade Name: MARKEL SHARPIE #15 - ALL COLORS

General Information

Item Name: SEE SUPP DATA
Company's Name: MARKAL CO
Company's Street: 250 N WASHENAW AVENUE
Company's City: CHICAGO
Company's State: IL
Company's Country: US
Company's Zip Code: 60612-2014
Company's Emerg Ph #: 312-826-1700
Company's Info Ph #: 312-826-1700
Distributor/Vendor # 1: CURTIN MATHESON SCIENTIFIC INC
Distributor/Vendor # 1 Cage: 15481
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SM
Date MSDS Prepared: 21FEB90
Safety Data Review Date: 03SEP92
MSDS Serial Number: BNRKJ
Specification Number: UNKNOWN SEE SUPP DAT
Spec Type, Grade, Class: UNKNOWN
Hazard Characteristic Code: N1
Unit Of Issue Container Qty: UNKNOWN
Type Of Container: UNKNOWN
Net Unit Weight: UNKNOWN

Ingredients/Identity Information

Proprietary: NO
Ingredient: 2-ETHOXYETHANOL (EGEE) (SARA III)
Ingredient Sequence Number: 01
Percent: 70
NIOSH (RTECS) Number: KK8050000
CAS Number: 110-80-5
OSHA PEL: S, 200 PPM
ACGIH TLV: S, 5 PPM; 9192
Other Recommended Limit: NONE SPECIFIED

Proprietary: NO
Ingredient: 2-METHOXYETHANOL (EGME) (SARA III)
Ingredient Sequence Number: 02
Percent: 70
NIOSH (RTECS) Number: KL5775000
CAS Number: 109-86-4
OSHA PEL: S, 25 PPM
ACGIH TLV: S, 5 PPM; 9192
Other Recommended Limit: NONE SPECIFIED

Proprietary: NO
Ingredient: 2-BUTOXYETHANOL

Ingredient Sequence Number: 03
Percent: 12
NIOSH (RTECS) Number: KJ8575000
CAS Number: 111-76-2
OSHA PEL: S, 50 PPM
ACGIH TLV: S, 25 PPM; 9293
Other Recommended Limit: NONE SPECIFIED

Proprietary: NO
Ingredient: ETHYL ALCOHOL (ETHANOL)
Ingredient Sequence Number: 04
Percent: 10
NIOSH (RTECS) Number: KQ6300000
CAS Number: 64-17-5
OSHA PEL: 1000 PPM
ACGIH TLV: 1000 PPM; 9192
Other Recommended Limit: NONE SPECIFIED

Proprietary: NO
Ingredient: BENZYL ALCOHOL
Ingredient Sequence Number: 05
Percent: 2
NIOSH (RTECS) Number: DN3150000
CAS Number: 100-51-6
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE SPECIFIED

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Physical/Chemical Characteristics

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Appearance And Odor: COLORED LIQUID, INK-LIKE ODOR (SEE SUPP DATA)
Boiling Point: 250F, 121C
Melting Point: UNKNOWN
Vapor Pressure (MM Hg/70 F): 4-6 MM
Vapor Density (Air=1): 3-4
Specific Gravity: 0.95
Decomposition Temperature: UNKNOWN
Evaporation Rate And Ref: .3-.6 BUTYL ACETATE=1
Solubility In Water: SLIGHT
Percent Volatiles By Volume: 70-90
Viscosity: -

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Fire and Explosion Hazard Data

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Flash Point: 125F, 52C
Flash Point Method: TOC
Lower Explosive Limit: UNKNOWN
Upper Explosive Limit: UNKNOWN
Extinguishing Media: ALCOHOL FOAM, DRY CHEMICAL, OR CARBON DIOXIDE
Special Fire Fighting Proc: SELF CONTAINED BREATHING APPARATUS WITH FULL
FACEPIECE OPERATED IN A POSITIVE PRESSURE MODE.
Unusual Fire And Expl Hazrds: HEAVIER THAN AIR VAPORS.

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Reactivity Data

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Stability: YES
Cond To Avoid (Stability): NONE KNOWN
Materials To Avoid: STRONG OXIDIZING AGENTS, STRONG MINERAL ACIDS
Hazardous Decomp Products: BURNING CAN PRODUCE CARBON MONOXIDE
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): WILL NOT OCCUR.

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Health Hazard Data

LD50-LC50 Mixture: ORAL RAT LD50 IS UNKNOWN
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: YES
Health Haz Acute And Chronic: SUPPLIER DID LEFT THIS FIELD BLANK.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: THE PRODUCT CONTAINS NO INGREDIENT THAT IS LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.
Signs/Symptoms Of Overexp: EYE: SEVERE IRRITATION AND CORNEAL DAMAGE.
SKIN: CAN BE MILDLY IRRITATING. INHALED: NASAL AND RESPIRATORY IRRITATION.
ONGESTED: G/I IRRITATION, NAUSEA, VOMITING, DIARRHEA. CHRONIC OVEREXPOSURE MAY BE FETO TOXIC AND MAY LEAD TO DAMAGE OF LIVER AND KIDNEYS.
Med Cond Aggravated By Exp: NONE KNOWN
Emergency/First Aid Proc: EYE:FLUSH W/WATER 15 MIN.-GET MEDICAL ATTENTION.
SKIN:WASH WITH SOAP & WATER. INHALED:REMOVE TO FRESH AIR. INGESTED: INDUCE VOMITING IF CONSCIOUS. GET MEDICAL CARE.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: ELIMINATE IGNITION SOURCES. VENTILATE AREA. COLLECT WITH ABSORBENT MATERIAL.
Neutralizing Agent: NO INFORMATION GIVEN ON MSDS BY SUPPLIER
Waste Disposal Method: DRY ABSORBENT MATERIAL IN A HOOD AND DISPOSE OF ABSORBENT AS SOLID WASTE.
Precautions-Handling/Storing: STORAGE APPROPRIATE FOR FLAMMABLE LIQUIDS.
Other Precautions: NONE

Control Measures

Respiratory Protection: IF ANY TLV IS EXCEEDED, USE NIOSH/MSHA AIR SUPPLIED RESPIRATOR.
Ventilation: LOCAL EXHAUSE AND/OR GENERAL VENTILATION TO KEEP EXPOSURE BELOW TLVS.
Protective Gloves: SOLVENT RESISTANT IF NEEDED
Eye Protection: OSHA APPROVED FOR SPLASH PROTECTION.
Other Protective Equipment: SUPPLIER DID LEFT THIS FIELD BLANK.
Work Hygienic Practices: SUPPLIER DID NOT ADDRESS THIS FIELD.
Suppl. Safety & Health Data: MSDS RECEIVED FROM NAVY (FOCAL POINT N). NAVY IDENTIFIED NSN. NSN WAS CANCELLED W/O REPLACEMENT, DATE OF CANCELLATION NOT GIVEN. NO INFORMATION AVAILABLE FOR SPECIFICATION, MANAGER, OR ITEM NAME.

Transportation Data

Trans Data Review Date: 92248
DOT PSN Code: ZZZ
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
IMO PSN Code: XXX
IMO Proper Shipping Name: SEE ADDITIONAL DATA FIELD IN HMIS FOR FURTHER INFORMATION
IATA PSN Code: XXX
IATA Proper Shipping Name: SEE ADDITIONAL DATA FIELD IN HMIS FOR FURTHER INFORMATION
AFI PSN Code: ZZZ
AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
Additional Trans Data: NSN HAS BEEN CANCELLED WITHOUT REPLACEMENT. EVEN DATE OF CANCELLATION IS NOT AVAILABLE ON THE TIR.

Disposal Data

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Label Data

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Label Required: YES
Technical Review Date: 03SEP92
MFR Label Number: NONE
Label Status: F
Common Name: MARKEL SHARPIE #15 - ALL COLORS
Signal Word: WARNING!
Acute Health Hazard-Moderate: X
Contact Hazard-Slight: X
Fire Hazard-Moderate: X
Reactivity Hazard-None: X
Special Hazard Precautions: STORAGE APPROPRIATE FOR FLAMMABLE LIQUIDS.
HEAVIER THAN AIR VAPORS. IN CASE OF SPILL: ELIMINATE IGNITION SOURCES.
VENTILATE AREA. COLLECT WITH ABSORBENT MATERIAL.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: MARKAL CO
Label Street: 250 N WASHENAW AVENUE
Label City: CHICAGO
Label State: IL
Label Zip Code: 60612-2014
Label Country: US
Label Emergency Number: 312-826-1700