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RALRUBE INC -- FA1076 MMM-A-1617 TYPE III -- 8040-00-298-1946

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

Product ID:FA1076 MMM-A-1617 TYPE III

MSDS Date:11/18/1997

FSC:8040

NIIN:00-298-1946

MSDS Number: CDXRZ === Responsible Party === Company Name:RALRUBE INC Address:36977 FOX GLEN City:FARMINGTON HILLS

State:MI ZIP:48331 Country:US

Info Phone Num:248-661-0260

Emergency Phone Num:248-661-0260

CAGE:GO659

=== Contractor Identification === Company Name:RALRUBE INC Address:36977 FOX GLEN

City:FARMINGTON

State:MI

ZIP:48331-5000

Country:US

Phone:313-661-0260

CAGE:GO659

Company Name: RALRUBE INC.

Address:36977 FOX GLEN Box:City:FARMINGTON HILLS

State:MI ZIP:48331 Country:US

Phone:248-661-0260, FAX 248-661-3941

CAGE:6X798

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

Ingred Name:METHYL ETHYL KETONE (2-BUTANONE) (MEK) (SARA 313) (CERCLA)

CAS:78-93-3

RTECS #:EL6475000

Fraction by

Wt: 65.0%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:200 PPM ACGIH TLV:200 PPM EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name: TETRAHYDROFURAN (CERCLA)

CAS:109-99-9

RTECS #:LU5950000 Fraction by Wt: 4.0%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:200 PPM ACGIH TLV:200 PPM EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name: METHYL ISOBUTYL KETONE (HEXONE) (SARA 313) (CERCLA)

CAS:108-10-1

RTECS #:SA9275000 Fraction by Wt: 4.0%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:50 PPM

ACGIH TLV: 50 PPM

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name: ACRYLONITRILE BUTADIENE POLYMER

CAS:9003-18-3

Other REC Limits: NONE RECOMMENDED

Ingred Name:TRADESECRET #1397250002-5004P

Other REC Limits: NONE RECOMMENDED

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

LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT AS A WHOLE

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:INHALATION MAY C

AUSE NARCOSIS. EYE
CONTACT MAY CAUSE IRRITATION. SKIN CONTACT MAY CAUSE

IRRITATION/DRYNESS. LIQUID INGESTION MAY RESULT IN

VOMITING/DIARRHEA. TARGET ORGANS: LIVER, KIDNEYS, LUNG, BRAIN.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:MAY CAUSE LIVER & KIDNEY DAMAGE. CAN DAMAGE NERVOUS SYSTEM. WEAKNESS IN HANDS & FEET MAY OCCUR. IRRITATION TO

SKIN AND EYES. CAN ALSO CAUSE SKIN DRYNESS. MAY CAUSE VOMITING & DIARRHEA.

Medical Cond Aggravated by Exposure:RESPIRATORY AILMENTS, MAY CAUSE INJURY TO LIVER AND KIDNEYS WHEN INGESTED OR INHALED AT HIGH CONCENTRATIONS.

First Aid:UTILIZE THE SUGGESTED METHODS BELOW. IN EMERGENCY SITUATIONS NOTIFY PHYSICIAN IMMEDIATELY. SKIN: WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION. EYES: FLUSH ABUNDENTLY WITH CLEAN WATER AND

REFER TO P HYSICIAN. INGESTION: DO NOT INDUCE VOMITING. REFER TO PHYSICIAN. EXCESSIVE INHALATION: REMOVE PATIENT TO FRESH AIR OR GIVE OXYGEN. USE CPR IF PATIENT IS NOT BREATHING. REFER TO PHYSICIAN.

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

Flash Point Method:COC

Flash Point:4F,-16C

Autoignition Temp: Autoignition Temp Text: 610F

Lower Limits:1.4 % Upper Limits:11.8 %

Extinguishing Media: FOAM, CARBON DIOXIDE, DRY CHEMICAL

Fire Fighting Proce

dures:NIOSH/MSHA-APPROVED SELF-CONTAINED BREATHING
APPARATUS SHOULD BE WORN. USE WATER SPRAY TO COOL FIRE EXPOSED
STRUCTURES AND DISPERSE VAPOR CLOUD.

Unusual Fire/Explosion Hazard: VAPOR IS HEAVIER THAN AIR AND MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASHBACK.

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

Spill Release Procedures: ABSORB SPILL IN SAND, EARTH, VERMICULITE, OIL-DRI, OR SOL-SPEED-DRI. SHOVEL ABSORBED MATERIAL INTO STEEL

CONTAINER AND COVER. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.
============= Handling and Storage =============
Handling and Storage Precautions:STORE IN APPROVED SOLVENT STORAGE AREA. KEEP TIGHTLY CLOSED. KEEP AWAY FROM HEAT, OPEN FLAMES, SPARKS, HOT SURFACES AND OXIDIZING AGENTS.
Other Precautions:NONE SPECIFIED BY MANUFACTURER.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:USE NIOSH-APPROVED ATMOSPHERE SUPPL YING OR AIR
PURIFYING RESPIRATOR FOR ORGANIC VAPORS AS REQUIRED TO MAINTAIN EXPOSURE LEVELS BELOW RECOMMENDED LIMITS.
Ventilation:LOCAL EXHAUST:REMOVE VAPORS DURING PROCESSING. MECHANICAL EXPLOSION-PROOF EQUIPMENT. SPECIAL: REDUCE VAPOR CONC < PELS.
Protective Gloves:PVA Eye Protection:SAFETY GLASSES
Other Protective Equipment:PROTECTIVE CLOTHING AS REQUIRED TO PREVENT SKIN CONTACT.
Work Hygienic Practices:KEEP AREA CLEAN. CLEAN UP SPILLS IMMEDIATELY. PRACTICE GOOD PERSONAL HYGIENE.
Supplemental Safety and Health
NONE SPECIFIED BY MANUFACTURER.
========== Physical/Chemical Properties ===========
HCC:F2 Boiling Pt:B.P. Text:149F,65C Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN
Vapor Pres:71.3 Vapor Density:2.55
Spec Gravity:0.867 VOC Grams/Liter:5.43
Evaporation Rate & Dr. Reference: NOT GIVEN
Solubility in Water:NOT GIVEN Appearance and Odor:SOLVENT ODOR, APPEARANCE NOT SPECIFIED
========= Stability and Reactivity Data ==========

Stabi

lity Indicator/Materials to Avoid:YES
AVOID OXIDIZING AGENTS
Stability Condition to Avoid:AVOID HEAT, OPEN FLAMES, SPARKS, HOT SURFACES.
Hazardous Decomposition Products:OXIDES OF CARBON, NITROGEN, ZINC,
SULFUR, HYDROGEN CHLORIDE.
======= Disposal Considerations ===========
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Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL CHEMICAL AND SOLVENT WASTE DISPOSAL REGULATIONS.
========== Other Information ========
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