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RALRUBE INC. -- FA1076 MMM-A-1617 TYPE III -- 8040-00-152-0063

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

Product ID:FA1076 MMM-A-1617 TYPE III

MSDS Date:05/01/2000

FSC:8040

NIIN:00-152-0063

Status Code:A

MSDS Number: CKLLS

=== Responsible Party ===

Company Name: RALRUBE INC.

Address:36977 FOX GLEN

City: FARMINGTON HILLS

State:MI ZIP:48331

Country:US

Info Phone Num:810-661-0260

Emergency Phone Num:800-424-

9300

Chemtrec Ind/Phone:(800)424-9300

CAGE:6X798

=== Contractor Identification ===

Company Name: CLIFTON ADHESIVE INC

Address:BURGESS PL

Box:City:WAYNE

State:NJ ZIP:07470 Country:US

Phone:201-694-0845; 973-694-0845 Contract Num:IC-GS-10F-J0010

CAGE:79833

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: ETHYL METH

YL KETONE CAS:78-93-3 RTECS #:EL6475000

= Wt:65.

OSHA PEL:590 MG/M3;200 PPM ACGIH TLV:590 MG/M3;200 PPM ACGIH STEL:885 MG/M3;300 PPM

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

Ingred Name:TETRAHYDROFURAN

CAS:109-99-9

RTECS #:LU5950000

= Wt:4.

OSHA PEL:590 MG/M3;200 PPM ACGIH TLV:590 MG/M3;200 PPM ACGIH STEL:737 MG/M3;250 PPM

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name: METHYL ISO-BUTYL KETONE

CAS:108-10-1

RTECS #:SA9275000

= Wt:4.

OSHA PEL:410 MG/M3;100 PPM ACGIH TLV:205 MG/M3;50 PPM

Α

CGIH STEL:307 MG/M3;75 PPM

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

Ingred Name:NITRILE RUBBER (BUTADIENE-ACRYLONITRILE POLYMER)

CAS:9003-18-3

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:TARGET ORGANS: MEK, BASED ON ANIMAL
DATA, MAY CAUSE LIVER ABNORMALITIES, KIDNEY, LUNG & BRAIN DAMAGE.
TERATOGEN, THF-MAY CAUSE LIVER OR KIDNEY ABNORMALITIES. MIBK-MAY
CAUSE LIVER ABN

ORMALITIES, LUNG O R BRAIN DAMAGE, BASED ON ANIMAL DATA. ACUTE: NAUSEA AND/OR NARCOSIS. CHRONIC: MAY CAUSE LIVER AND KIDNEY DAMAGE. CAN DAMAGE NERVOUS SYSTEM. WEAKNESS IN HANDS AND FEET MAY OCCUR. MINOR EMBRYOTOXIC/FETO TOXIC EFFECTS HAVE BEEN OBSERVED IN LABORTORY RATS EXPOSED TO MEK BY INHALATION AT LEVELS GREATER THEN 1000 PPM (5 TIMES THE OSHA-PEL) FOR MOST OF THE

Explanation of Carcinogenicity:NO.

GESTATION PERIOD.

Effects of Overexposure: IRRITATION TO EYES AND SKIN.

CAN ALSO CAUSE

SKIN DRYNESS. LIQUID INGESTION MAY RESULT IN VOMITING. CAN SEVERELY BURN EYES. MAY CAUSE VOMITING AND DIARRHEA.

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

First Aid:IN EMERGENCY SITUATIONS NOTIFY PHYSICIAN IMMEDIATELY. SKIN: WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION. EYES: FLUSH

ABUNDANTLY WITH CLEAN WATER AND REFER TO PHYSICIAN. INGESTION: DO NOT INDUCE V OMITING. 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:OC Flash Point:=-15.4C, 4.F

Autoignition Temp:=321.1C, 610.F

Lower Limits:1.4 Upper Limits:11.8

Extinguishing Media:CO2, FOAM, DRY CHEMICAL

Fire Fighting Procedures:NI

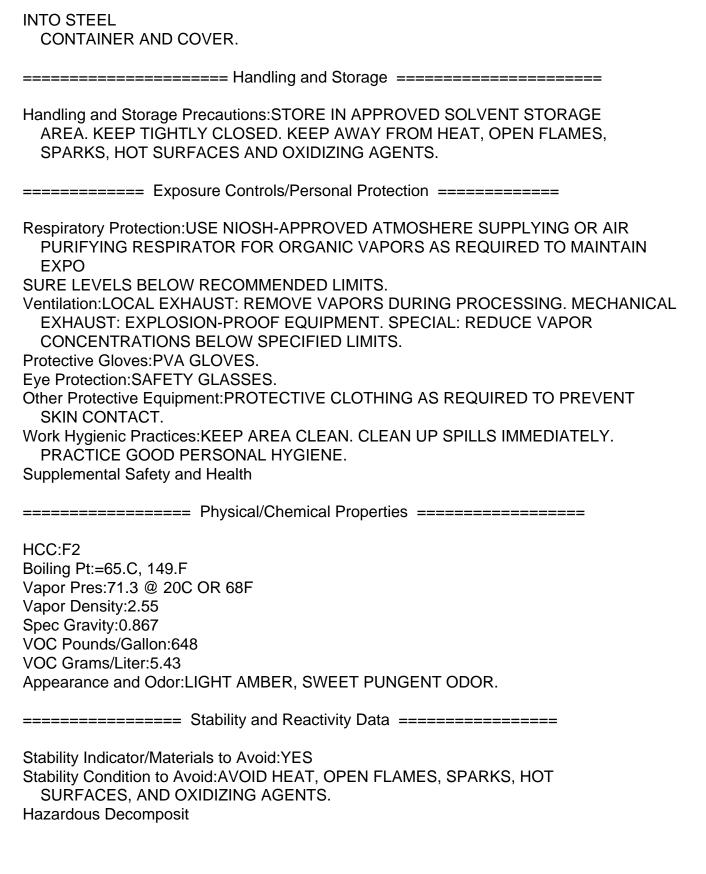
OSH/MSHA-APPROVED SELF-CONTAINED BREATHING

APPARATUS SHOULD BE WORN. USE WATER SPRAY TO COOL FIRE EXPOSED STRUCTRUES AND DISPERSE VAPOR CLOUD IF FIRE IS NOT PRESENT.

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



ion Products:OXIDES OF CARBON, NITROGEN ZINC, SULFUR, HYDROGEN CHLORIDE. Conditions to Avoid Polymerization:WILL NOT OCCUR.
======= Disposal Considerations ===========
Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CHEMICAL AND SOLVENT WASTE DISPOSAL REGULATIONS.
========= MSDS Transport Information ==========
Transport Information:PSN: ADHESIVE,3, UN1133, II. LTD QTY

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