

RALRUBE INC. -- SILICONE ADHESIVE MIXTURE -- 8040-00-097-6524

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

Product ID:SILICONE ADHESIVE MIXTURE

MSDS Date:09/29/1999

FSC:8040

NIIN:00-097-6524

Status Code:A

MSDS Number: CLQBF

=== 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:800-424-93

00

Preparer's Name:ERNEST CARTER

Chemtec Ind/Phone:(800)424-9300

CAGE:6X798

=== Contractor Identification ===

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:BENZENE

CAS:71-43-2

RTECS #:CY1400000

< Wt:.04

OSHA PEL:SEE 1910.1028

ACGIH TLV:32 MG/M3;10 PPM

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:TOL

UENE
CAS:108-88-3
RTECS #:XS5250000
Minumum % Wt:30.
Maxumum % Wt:60.
OSHA PEL:SEE TABLE Z-2
ACGIH TLV:188 MG/M3;50 PPM
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:OCTAMETHYLCYCLOTETRASIOXANE
CAS:556-67-2
RTECS #:GZ4397000
Minumum % Wt:1.
Maxumum % Wt:5.

Ingred Name:SODIUM SILICATE
CAS:68440-70-0
Minumum % Wt:30.
Maxumum % Wt:60.

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:

NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INGESTION: HARMFUL IF SWALLOWED.

CAUSES VOMITING, NAUSEA, AND DIARRHEA.MAY CAUSE TISSUE DAMAGE. SKIN CONTACT: HARMFUL IF ABSORBED THRU THE SKIN. MAY CAUSE SEVERE SKIN IRRITATION. INHALATION: EXCESSIVE INHALATION CAUSES HEADACHE, DIZZINESS, NAUSEA AND INCOORDINATION. CAUSES IRRITATION OF THE MOUTH, THROAT AND NOSE. HARMFUL IF INHALED. CAN CAUSE UNCONSCIOUSNESS. EYE CONTACT:MAY CAUSE SEVERE EYE IRRI TATION. CAU

SES REDNESS AND TEARING. CAUSES BLURRED VISION.

Explanation of Carcinogenicity:THIS PRODUCT OR ONE OF ITS INGREDIENTS PRESENT 0.1% OR MORE IS NOT LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN BY NTP, IARC, OR OSHA.

Effects of Overexposure:DERMATITIS. RESPIRATORY AILMENTS. CENTRAL NERVOUS SYSTEM DAMAGE. LIVER AND KIDNEY DAMAGE. REPRODUCTIVE DISORDERS. POSSIBLE EFFECT ON SPLEEN. MAY CAUSE LIVER EFFECTS.

Medical Cond Aggravated by Exposure:RESPIRATORY LIVER, KIDNEY DERMAL AILME

NTS.

=====
===== First Aid Measures =====

First Aid:INGESTION: DO NOT INDUCE VOMITING. SLOWLY DILUTE WITH 1-2 GLASSES OF WATER OR MILK AND SEEK MEDICAL ATTENTION. SKIN:REMOVE CONTAMINATED CLOTHING AND LAUNDRER BEFORE REUSE. WASH WITH SOAP AND WATER.GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR.IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH TO MOUTH. IF BREATHING IS DIFFICULT GIVE OXYGEN. GET MEDICAL ATTENTION.EYES : IMMEDIATE LY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION.

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

Flash Point Method:TCC
Flash Point:=1.7C, 35.F
Autoignition Temp:=536.1C, 997.F
Lower Limits:1.2%
Upper Limits:7.0%
Extinguishing Media:ALL STANDARD FIREFIGHTING MEDIA.
Fire Fighting Procedures:FLAMMABLE. WEAR RESPIRATORY PROTECTION IF IN A CONFINED AREA.

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

==

Spill Release Procedures:WIPE, SCRAPE OR SOAK UP IN AN INERT MATERIAL AND PUT IN A CONTAINER FOR DISPOSAL. WEAR PROPER PROTECTIVE EQUIPMENT AS SPECIFIED IN THE PROTECTIVE EQUIPMENT SECTION. REMOVE SOURCES OF IGNITION. WARN OT HER WORKERS OF SPILL. INCREASE AREA VENTILATION. PERSON NOT TRAINED SHOULD EVACUATE AREA.

=====
===== Handling and Storage =====

Handling and Storage Precautions:USE GROUND STRAP. RECOMMENDED STORAGE IN ORIGINAL CONTAINER BELOW 30'C (85'F).KEEP CONTAINER CLOSED WHEN NOT IN USE. AVOID BREATHING VAPORS, IF EXPOSED TO HIGH VAPOR CONCENTRATION, LEAVE AREA AT ONCE. AVOID ONLY IN A WELL VENTILATED AREA. WARNING. FLAMMABLE. DO NOT INHALE VAPORS.

=====
===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE APPROVED NIOSH RESPIRATORY PROTECTION IF TLV EXCEEDED.
Ventilation:USE ONLY IN WELL VENTILATED AREA.
Protective Gloves:RUBBER GLOVES.
Eye Protection:SAFETY GLASSES

. MONOGOGGLES.

Other Protective Equipment:OTHER PROTECTIVE EQUIPMENT: WEAR EYE PROTECTION AND PROTECTIVE CLOTHING.

Work Hygienic Practices:EXHAUST VENTILATION, SHOWERS, EYEWASH STATIONS, USE IN WELL VENTILATED AREA.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

Boiling Pt:=111.1C, 232.F

Vapor Pres:22

Vapor Density:3.2

Spec Gravity:(WATER=1): .99

VOC Pounds/Gallon:435

Evaporation Rate & Reference:1.9

Solubility in Water:NEGLIGIBL

E

Appearance and Odor:LIQUID AROMATIC CLEAR 2.14

Percent Volatiles by Volume:45%

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

CONTACT WITH OXIDIZING AGENTS.

Stability Condition to Avoid:KEEP AWAY FROM HEAT, SPARKS AND FLAME OR ANY SOURCE OF IGNITION.

Hazardous Decomposition Products:CARBON MONOXIDE. CARBON DIOXIDE. SILICON DIOXIDE. FORMAL DEHYDE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== D

isposal Considerations =====

Waste Disposal Methods:DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this

d

ocument should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.