

GRIFFIN L.L.C. -- ATRAPA ULV -- 6840-01-169-1842

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

Product ID:ATRAPA ULV
MSDS Date:01/07/1999
FSC:6840
NIIN:01-169-1842
Status Code:A
MSDS Number: CJKRK
=== Responsible Party ===
Company Name:GRIFFIN L.L.C.
Address:2509 ROCKY FORD ROAD
Box:1847
City:VALDOSTA
State:GA
ZIP:31603-1847
Country:US
Info Phone Num:912-242-8635/ EMER: 800-237-1854
Emergency Phone Num:800-
237--1854
Chemtrec Ind/Phone:(800)424-9300
CAGE:5R103

=== Contractor Identification ===

Company Name:GRIFFIN L.L.C.
Address:2509 ROCKY FORD ROAD
Box:1847
City:VALDOSTA
State:GA
ZIP:31603-1847
Country:US
Phone:912-242-8635/ EMER: 800-237-1854
CAGE:5R103

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

Ingred Name:MALATHION
CAS:121-75-5
RTECS #:WM8400000
= Wt:96.5
OSHA PEL:15 MG/M3
ACGIH TLV:10 MG/M3
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

=====
Hazards Iden
=====

tification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHALATION-TOXIC FI INHALED. EYE
IRRITATION-PRACTICALLY NONIRRITATING TO THE EYES. SKIN
IRRITATION-SLIGHTLY IRRITATING TO THE SKIN. SKIN ABSORPTION-TOXIC
IF ABSORBED THROUGH THE SKIN. INGESTION-TOXIC IF SWALLOWED.

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

First Aid:INHALATION-REMO
VE TO FRESH AIR. IF NOT BREATHING, GIVE
ARTIFICIAL RESPIRATION PREFERABLY MOUTH-TO-MOUTH. GET PROFESSIONAL
MEDICAL AID. EYE-HOLD EYELIDS OPEN & FLUSH WITH WATER FOR 15-20 MIN
UNTIL NO EVIDENCE OF CHEMICAL REMAINS. GET PROFESSIONAL MEDICAL
AID IF IRRITATION PERSISTS. SKIN-REMOVE CONTAMINATED CLOTHES/SHOES.
WASH WITH PLENTY OF SOAP & WATER FOR 15-20 MIN UNTIL NO EVIDENCE OF
CHEMICAL REMAINS. GET PROFESSIONAL MEDICAL AID IF IRRITATION
PERSISTS. INGESTION-IF FULLY CONSCIOUS, IMMEDIATELY GIVE LARGE
AMOUNTS OF WATER & INDUCE VOMITING BY TOUCHING BACK OF THROAT WITH
FINGER. GET PROFESSIONAL MEDICAL AID.

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

Flash Point:>160.C, 320.F
Autoignition Temp:Autoignition Temp Text:N/D
Lower Limits:N/D
Upper Limits:N/D
Extinguishing Media:USE DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR
FOAM. WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE
EQUIPMENT.
Fire Fighting Procedures
:PREVENT HUMAN EXPOSURE TO FIRE, SMOKE, FUMES
OR PRODUCTS OF COMBUSTION. STAY UPWIND AND KEEP SAFE DISTANCE FROM
THE FIRE.
Unusual Fire/Explosion Hazard:MALATHION WILL DECOMPOSE RAPIDLY WHEN
HEATED TO TEMPS > 100C, SIGNIFICANT INCREASE RISK OF INDUCING
EXPLOSION. DECOMPOSITION IS DEPENDENT UPON TIME &TEMP DUE TO
EXOTHERMIC & AUTOCATALYTIC REACTIONS. REACTIONS INVOLVE
REARRANGEMENTS & POLYMERIZATION RELEASING VOLATILE MALODOROUS &
INFLAMMABLE COMPOUNDS DIMETHYL SULFID

E.

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

Spill Release Procedures: SMALL LIQUID SPILLS ON THE FLOOR OR OTHER IMPERVIOUS SURFACE SHOULD BE SWEEPED UP BY MEANS OF AN INERT ABSORPTIVE MATERIAL SUCH AS HYDRATED LIME, SAWDUST, FULLER'S EARTH, OR OTHER ABSORBENT CLAYS. SCOOP INTO PROPER CONTAINERS & DISPOSE OF IN ACCORDANCE WITH THE INSTRUCTIONS PROVIDED UNDER DISPOSAL. RINSE AREA WITH SODA LYE.

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

Handling and Storage Precautions: STORE IN A COOL, DRY WELL-VENTILATED AREA OUT OF THE REACH OF CHILDREN. DO NOT STORE WITH FOOD, FEED OR ANY OTHER MATERIAL TO BE USED OR CONSUMED BY HUMANS OR ANIMALS. DO NOT CONTAMINATE WATER SUPPLIES, LAKES, STREAMS OR PONDS. KEEP ALL FOOD IN A SEPERATE AREA, AWAY FROM THE STORAGE/USE LOCATION.

Other Precautions: PREVENT EATING, DRINKING, TOBACCO USAGE AND COMESTIC APPLICATION IN AREAS WHERE THERE IS A POTENTIAL EXPOSURE TO THIS MATERIAL. ALWAYS WASH HANDS PRIOR TO EATING OR USING TOBACCO.

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

Respiratory Protection: WEAR NIOSH/MSHA APPROVED MATERIALS TO AVOID BREATHING PRODUCT.

Ventilation: PROVIDE LOCAL EXHAUST VENTILATION AND/OR GENERAL DILUTION VENTILATION TO MEET PUBLISHED EXPOSURE LIMITS.

Protective Gloves: WATERPROOF GLOVES

Eye Protection: WEAR PROTECTIVE EYEWEAR TO AVOID MATERIAL GETTING INTO EYES.

Other Protective Equipment: APPLICATORS AND OTHER HANDLERS MUST WEAR

LONG-SLEEVED SHIRT AND LONG PANTS, WATERPROOF GLOVES AND SHOES PLUS SOCKS.

Work Hygienic Practices: AFTER WORK, TAKE OFF WORK CLOTHES & SHOES. SHOWER, USING SOAP & WATER. WEAR CLEAN CLOTHES LEAVING JOB. DO NOT WEAR CONTAMINATED CLOTHING. WASH PROTECTIVE CLOTHING & PROTECT EQUIP W/SOAP & WATER AFTER USE

Supplemental Safety and Health

PERSONS WORKING W/PRODUCT FOR LONGER PERIOD SHOULD FREQUENT BLOOD TESTS OF THEIR CHOLINESTRASE LEVELS. IF CHOL

CHOLINESTERASE LEVEL FALLS BELOW

A CRITICAL POINT, NO FURTHER EXPOSURE SHOULD BE ALLOWED UNTIL IT HAS BEEN DETERMINED BY MEANS OF BLOOD TESTS THAT THE CHOLINESTERASE LEVEL HAS RETURNED TO NORMAL.

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

HCC:V1

Boiling Pt:B.P. Text:DECOMPOSES > 190 W/O B

Melt/Freeze Pt:=2.9C, 37.2F

Vapor Pres:4X10(-8)MMHG AT 30C

Vapor Density:20C

pH:3.7(1%DISPERS)

Viscosity:70CPS AT 25C

Solubility in Water:145MG/L AT 25C

Appearance and Odor:

LIQUID. LIGHT YELLOW. MILD ORGANOPHOSPHATE ODOR.

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

Stability Indicator/Materials to Avoid:YES

DECOMPOSITION WITH ALKALINE MATERIALS. STRONG ALKALIES, AMINES, AND STRONG OXIDIZING COMPOUNDS. MATERIAL CAN CORRODE IRON, STEEL, TIN PLATE, LEAD, AND COPPER. MALATHION RAPIDLY HYDROLIZES AT PH>7.0 OR 2.05 MG/L (RATS-4

HOUR). EYE IRRITATION-CONSIDERED TO BE PRACTICALLY NON-IRRITATING TO THE EYES. SKIN-CONSIDERED TO B

E SLIGHTLY IRRITATING TO THE SKIN.

SKIN ABSORPTION-ACUTE DER MAL LD50>2000 MG/KG (RATS).

INGESTION-ORAL LD50=1950 MG/KG (RATS). THIS MATERIAL OS NOT

EMBRYOTOXIC OR TETRATOGENIC. IT IS NOT A MUTAGEN AND IS NOT A

CARCINOGEN. MALATHION IS A NEUROTOXIN. IT IS A CHO LINESTERASE

INHIBITOR AFFECTING THE CENTRAL NERVOUS AND PERIPHERAL NERVOUS SYSTEMS.

===== Ecological Information =====

Ecological:THIS MATERIAL IS BIODEGRADABLE. IT UNDERGOES RAP ID

DEGRADATION IN THE ENVIRONMENT AND WITHOUT PROBLEMS IN SEWAGE

TREATMENT PLANTS. ATRAPA ULV IS TOXIC TO FISH, AQUATIC

INVERTEBRATES, AND AQUATIC LIFE STAGES OF AMPHIBIANS AND IS HIGHLY

TOXICTO BEES. THE AQUATIC TOXICITY IS: FISH: 96-H LC50 RAINBOW

TROUT: 0.200 MG/L. INVERTEBRATES: 48-H LC50, DAPHNIA: 1.0 L/L.

BIRDS: LD50, JAPANESE QUAIL: 400 MG/KG. BEES: 24-H LD50, BEES,

TOPICAL: 0.27 G/BEE. BEES: 24-H LD50, BEES, ORAL: 0.38 G/BEE.

===== Disposal =====

Considerations =====

Waste Disposal Methods:COMPLY WITH APPROPRIATE DISPOSAL REGULATIONS. DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE AND DISPOSAL. LANDFILL SOLIDS AT PERMITTED SITES. USE REGISTERED TRANSPORTERS.

===== MSDS Transport Information =====

Transport Information:DEPARTMENT OF TRANSPORTATION (DOT)/INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA): PACKAGES100 POUNDS (45.4 KG) ACTIVE INGR EDIENT/PACKAGE: NOT REGULATED. P
ROPER

SHIPPING NAME: RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (MALATHION, 96.5%). CLASS: UN3082. IDENTIFICATION NUMBER: UN 3082. PACKING GROUP: III. RQ: 100 POUNDS. BULK: MARINE POLLUTANT.

===== Regulatory Information =====

SARA Title III Information:THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" RELATING TO SARA TITLE III, AND IS CATEGORIZED AS AN ACUTE AND CHRONIC HAZARD (40 CFR 370.41). 313
R

REPORTABLE INGREDIENTS: THIS PRODUCT DOES NOT CONTAIN ANY MATERIAL LISTED IN SECTION 313 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

Federal Regulatory Information:OSHA-THIS PRODUCT IS CONSIDERED HAZARDOUS UNDER THE OSHA HAZARDOUS COMMUNICATION STANDARD. TSCA-ALL PRODUCT COMPONENTS ARE ON THE TSCA CHEMICAL INVENTORY. CERCLA-RELEASE OF THIS MATERIAL GREATER THAN 110 POUNDS IN AIR, LAND, OR WATER ARE REPORTABLE TO THE NATIONAL RESPONSE CENTER UNDER

CERCLA OR TO THE STATE AND LOCAL EMERGENCY PLANNING COMMITTEES UNDER SARA TITLE III SECTION 304. RCRA-WHEN A DECISION IS MADE TO DISCARD THIS MATERIAL AS SUPPLIED, IT DOES NOT MEET RCRA'S CHARACTERISTIC DEFINITIONS LISTED IN 40 CFR 261.33.

===== Other Information =====

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