

COGNIS CORPORATION (PLANT ADDRESS) -- AGNIQUE MMF MOSQUITO LARVICIDE & PUPICIDE --  
6840-01-467-1029

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

Product ID:AGNIQUE MMF MOSQUITO LARVICIDE & PUPICIDE

MSDS Date:07/10/2001

FSC:6840

NIIN:01-467-1029

Status Code:A

MSDS Number: CLJFC

=== Responsible Party ===

Company Name:COGNIS CORPORATION (PLANT ADDRESS)

Address:4900 ESTE AVE

City:CINCINNATI

State:OH

ZIP:45232

C

Country:US

Info Phone Num:800-543-7370/FAX: 513-482-5515

Emergency Phone Num:800-424-9300

Preparer's Name:ROBERT E. BORGERDING

Chemtrec Ind/Phone:(800)424-9300

CAGE:TO539

=== Contractor Identification ===

Company Name:COGNIC CORPORATION

Address:5051 ESTECREEK DRIVE

Box:City:CINCINNATI

State:OH

ZIP:45232

Country:US

Phone:800-543-7370/FAX: 513-482-5515

CAGE:TO539

Company Name:COGNIS CORP

Address:5051 ESTECREEK DR

Box:City:CINCINNATI

State:OH

ZIP:45232

Country:US

Phone:513-482-2814; 800-543-7370

Con

tract Num:SP0450-01-M-ZE05  
CAGE:0JS01  
Company Name:COGNIS CORP  
Address:5051 ESTECREEK DR  
Box:City:CINCINNATI  
State:OH  
ZIP:45232  
Country:US  
Phone:513-482-2814; 800-543-7370  
Contract Num:SP0450-01-M-ZE08  
CAGE:0JS01  
Company Name:HENKEL CORP  
Address:5051 ESTECREEK DR  
Box:City:CINCINNATI  
State:OH  
ZIP:45232  
Country:US  
Phone:800-543-7370  
CAGE:UO672

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Composition/Information on Ingredients  
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Ingred Name:POE (2) ISOSTEARYL ALCOHOL  
CAS:52292-17-8  
RTECS #:TR1581600  
= Wt:100.

I  
ngred Name:1,4-DIOXANE  
CAS:123-91-1  
RTECS #:JG8225000  
Fraction by Wt: < 0.0020%  
OSHA PEL:25 PPM SKIN  
ACGIH TLV:20 PPM SKIN  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

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Hazards Identification  
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LD50 LC50 Mixture:ORAL, RAT, LD50:>20 G/KG.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Health Hazards Acute and Chronic:EMERGENCY OVERVIEW: WARNING ! MAY  
CAUSE MINOR EYE IRRITATION ON PROLONGED OR REPEATED CONTACT. CLEAR,  
VISCIOUS LIGHT STRAW COL

ORED LIQUID. SKIN CONTACT: THIS MATERIAL IS NOT CLASSIFIED AS A SKIN IRRITANT. EYE CONTACT: MAY CAUSE MINOR EYE IRRITATION ON PROLONGED OR REPEATED CONTACT. INHALATION: CONSIDERED TO BE NON-TOXIC BY ANIMAL TESTS. INGESTION: CONSIDERED TO BE NON-TOXIC BY ANIMAL TESTS. CHRONIC EFFECTS: NONE KNOWN. OTHER HEALTH EFFECTS: NONE KNOWN.

Effects of Overexposure:SKIN CONTACT: IRRITATION. EYE CONTACT: MINOR IRRITATION. INHALATION: NON-TOXIC.INGESTION: NON-TOXIC.

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

First Aid:SKIN CONTACT: WASH AFFECTED AREA WITH SOAP AND WATER. EYE CONTACT: FLUSH EYES WITH PLENTY OF COOL WATER FOR AT LEAST 15 MINUTES. DO NOT LET VICTIM RUB EYES. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS. INHALATION: IF OVEREXPOSURE TO VAPOR OR MIST OCCURS, REMOVE VICTIM TO FRESH AIR. IF VICTIM HAS STOPPED BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH TO MOUTH. GET MEDICAL ATTENTION IMMEDIATELY. INGESTION: IF SWALLOWED, GET MEDICAL ASSISTANCE. DO NOT INDUCE VOMITING.

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

Flash Point Method:COC

Flash Point:>260.C, 500.F

Autoignition Temp:Autoignition Temp Text:N/D

Lower Limits:N/D

Upper Limits:N/D

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER SPRAY. WATER MAY BE INEFFECTIVE BUT SHOULD BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.

Fire Fighting Procedures:IF A SPILL OR LEAK HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS. WATER SPRAY MAY BE USED TO FLUSH SPILLS AWAY FROM FIRE. PERFORM ONLY THOSE FIRE FIGHTING PROCEDURES FOR WHICH YOU HAVE BEEN TRAINED.

Unusual Fire/Explosion Hazard:FIREFIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS IN THE POSITIVE PRESSURE MODE WITH A FULL FACEPIECE WHEN THERE IS A POSSIBILITY OF EXPOSURE TO SMOKE, FUMES, OR HAZARDOUS DECOMPOSITION PRODUCTS. DECOMPOSITION MAY PRODUCE CARBON MONOXIDE AND CARBON DIOXIDE.

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

Spill Release Procedures:ADD DRY MATERIAL TO ABSORB SPILL (IF LARGE SPILL, DIKE TO CONTAIN). USING RECOMMENDED PROTECTIVE EQUIPMENT, PICK UP BULK OF SPILL AND CONTAINERIZE FOR RECOVERY OR DISPOSAL. FLUSH AREA WITH WATER TO REMOVE RESIDUES.

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

Handling and Storage Precautions:EPA NUMBERS: 2302-14, 53263-28.  
CONTAINER DISPOSAL: TRIPLE RINSE THEN OFFER FOR RECYCLING OR RECONDITIONING, OR PUNCTURE AND DISPOSE IN A SANITARY LANDFILL OR BY OTHER PROCEDURES APPROVED BY STATE OR LOCAL AUTHORITIES.

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

Respiratory Protection:NOT APPLICABLE WITH ADEQUATE VENTILATION.  
Ventilation:GENERAL VENTILATION.  
Protective Gloves:RUBBER GLOVES.  
Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS.  
Supplemental Safety and Health

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

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HCC:V5  
Boiling Pt:=320.C, 608.F  
Melt/Freeze Pt:=-7.C, 19.4F  
M.P/F.P Text:-3C TO -7C  
Vapor Pres:N/D  
Vapor Density:> AIR  
Spec Gravity:0.906  
pH:N/D  
Evaporation Rate & Reference:NOT DETERMINED  
Solubility in Water:INSOLUBLE.  
Appearance and Odor:CLEAR, VISCOUS, LIGHT STRAW COLORED LIQUID. MILD ODOR.  
Percent Volatiles by Volume:N/D

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

Stability Indicator/Materials to Avoid:YES  
STRONG ACIDS, BASES, AND OXIDIZING AGENTS.  
Stabil

ity Condition to Avoid:NORMALLY STABLE. AVOID CONTACT WITH HEAT,  
SPARKS, FLAME AND SOURCES OF IGNITION.

Hazardous Decomposition Products:DECOMPOSITION PRODUCES CARBON MONOXIDE  
AND CARBON DIOXIDE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:EPA NUMBERS: 2302-14, 53263-28. ORAL, RAT,  
LD50: >2 G/KG; INHALATION, RABBIT, LC50:>29 MG/L; DERMAL, RABBIT,  
LD50:>2 G/KG. THIS MATERIAL WAS  
FOUND TO BE NON-IRRITATING TO HUMAN  
SKIN IN A HUMAN PATCH TEST. THIS MATERIL WAS MILDLY IRRITATING TO  
RABBIT EYES, AND THE EFFECTS WERE REVERSIBLE IN 7 DAYS.

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

Ecological:EPA NUMBERS: 2302-14, 53263-28. ECOLOGICAL TOXICITY: AVIAN  
ACUTE ORAL LD50 (MALLARD DUCK): > 2,000 MG/KG. AVIAN DIETARY LC50  
(BOBWHITE QUAIL): > 5,000 MG/KG. FISH ACUTE LC50 (BLUEGILL): 290  
MG/KG. RA INBOW TROUT: 98 MG/KG. AQUATIC INVERT  
EBRATE, LC50  
(DAPHNIA): 1.9 MG/L. ENVIRONMENTAL FATE: AVERAGE PERSISTENCE IN THE  
ENVIRONMENT UNDER STANDARD USE CONDITIONS IS 5 - 14 DAYS AT  
RECOMMENDED DOSAGE RAT ES.

===== Disposal Considerations =====

Waste Disposal Methods:ALL RECOVERED MATERIAL SHOULD BE PACKAGED,  
LABELED, TRANSPORTED, AND DISPOSED OR RECLAIMED IN CONFORMANCE WITH  
APPLICABLE LAWS AND REGULATIONS AND IN CONFORMANCE WITH GOOD  
ENGINEERING PRACTICES. AVOID LANDFILLING O  
F LIQUIDS. RECLAIM WHERE  
POSSIBLE.

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

Transport Information:PROPER SHIPPING NAME: NOT REGULATED BY THIS MODE  
OF TRANSPORTATION; UN/NA: N/A;DOT HAZARD CLASS: NOT DETERMINED; DOT  
HAZARDOUS MATERIALS: NOT APPLICABLE; EMERGENCY RESPONSE GUIDE  
NUMBER: NOT DETERMINE D; PACKAGING GROUP: NOT DETERMINED.

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

SARA Title III Information:SARA 311/312 HAZARD C

ATEGORIES: ACUTE. SARA

313 TOXIC CHEMICALS: NONE. SARA 302 EXTREMELY HAZARDOUS SUBSTANCES:  
NONE. CERCLA HAZARDOUS SUBSTANCES: 1,4-DIOXANE (123-91-1): <  
0.0020%

Federal Regulatory Information:EPA NUMBERS: 2302-14, 53263-28. TSCA  
INVENTORY STATUS: THIS PRODUCT AND/OR ALL OF ITS COMPONENTS ARE  
INCLUDED ON THE TSCA INVENTORY OF CHEMICAL SUBSTANCES. TSCA 12(B)  
COMPONENTS: NONE.

State Regulatory Information:CALIFORNIA PROPOSITION 65 COMPONENTS:  
WARNING ! THIS PRODUCT CONTA  
INS A CHEMICAL (OR CHEMICALS) KNOWN TO  
THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR  
OTHER REPRODUCTIVE HARM. 1,4-DIO XANE (123-91-1) < 0.0020 %.

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

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particular situation.