

COGNIS CORPORATION
Material Safety Data Sheet

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Revised: 09/04/2002
Supersedes: 07/10/2001

PRODUCT NAME: AGNIQUE MMF MOSQUITO
LARVICIDE & PUPICIDE
PRODUCT DESCRIPTION: ETHOXYLATED ALCOHOL
CASRN: 52292-17-8
MANUFACTURER: Cognis Corporation
4900 Este Avenue
Cincinnati, OH 45232
Phone: 888-329-2626 Fax: 513-482-5515
EMERGENCY NUMBERS:
CHEMTREC: 800-424-9300
EPA NUMBERS: 2302-14, 53263-28

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL	CONCENTRATION(Wt.%)	EXPOSURE LIMITS
POE (2) Isostearyl Alcohol		
CASRN 52292-17-8	100.0	None Established
1,4-Dioxane		
CASRN 123-91-1	< 0.0010	PEL:25 ppm(TWA) PEL:Skin Designation TLV:20 ppm(TWA) PEL:Skin Designation

The 1,4-dioxane level found in this product is less than 10 ppm using the current Cognis manufacturing and testing procedures. The Food Chemicals Codex reports a maximum allowance of 100 ppm for additives used in the food industry. Agnique MMF is not intended for use in food, but is labeled for use in potable water containers for mosquito control operations.

SECTION 3: HAZARDS IDENTIFICATION

***** Emergency *****
***** Overview *****

WARNING!

May cause minor eye irritation on prolonged or repeated contact.
Clear, Viscous, Light Straw Colored 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.

PRIMARY ROUTES OF EXPOSURE: Inhalation, Skin

SECTION 4: FIRST AID MEASURES

SKIN CONTACT:

Wash affected area with soap and water.

EYE CONTACT:

Immediately 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, immediately 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.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: >500 Deg F (Cleveland Open Cup)

LFL: Not Determined

UFL: Not Determined

AUTOIGNITION TEMPERATURE Not Determined

RECOMMENDED EXTINGUISHING MEDIA:

Carbon dioxide, Dry chemical, Foam, Water spray

SPECIAL FIRE FIGHTING PROCEDURES:

Use water spray, dry chemical, foam or carbon dioxide. Water may be ineffective but should be used to keep fire exposed containers cool. 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.

UNUSUAL FIRE OR EXPLOSION HAZARDS:

Perform only those fire fighting procedures for which you have been trained. 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.

HAZARDOUS COMBUSTION PRODUCTS:

Decomposition may produce carbon monoxide and carbon dioxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO TAKE IN CASE OF SPILL OR LEAK:

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.

SECTION 7: HANDLING AND STORAGE

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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION:

Safety glasses with side shields

SKIN PROTECTION:

Rubber gloves

RESPIRATORY PROTECTION:

Not applicable with adequate ventilation.

ENGINEERING CONTROLS:

General ventilation.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

APPEARANCE: Clear, Viscous, Light Straw Colored Liquid

ODOR: Mild

ODOR THRESHOLD: Not Determined

pH: N/D

MELTING POINT: -7 to -3 Deg C

BOILING POINT: 320 Deg C

SPECIFIC GRAVITY: 0.906

SOLUBILITY IN WATER: Insoluble

PERCENT VOLATILES(by Wt.): Not Determined

VAPOR DENSITY: Heavier than Air

VAPOR PRESSURE: Not Determined

EVAPORATION RATE(N-BUTYL ACETATE=1): Not determined

VOC CONTENT(EPA Method 24): 0.0 %

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Normally Stable

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBLE MATERIALS:

Strong acids, bases and oxidizing agents.

CONDITIONS TO AVOID:

Avoid contact with heat, sparks, flame and all sources of ignition.

HAZARDOUS DECOMPOSITION PRODUCTS:

Decomposition produces carbon monoxide and carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

TYPE OF STUDY	RESULTS	SPECIES
ORAL LD(50)	>20 g/kg	Rat
INHALATION LC(50)	>29 mg/l	Rabbit
DERMAL LD(50)	>2 g/kg	Rabbit

This material was found to be non-irritating to human skin in a human patch test.

This material was mildly irritating to rabbit eyes, and the effects were reversible in 7 days.

SECTION 12: ECOLOGICAL INFORMATION

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

Rainbow Trout: 98 mg/kg

Aquatic invertebrate LC50 (Daphnia): 1.9 mg/L

ENVIRONMENTAL FATE:

Average persistence in the environment under standard use conditions is 5-14 days at recommended dosage rates.

SECTION 13: DISPOSAL CONSIDERATIONS

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 of liquids. Reclaim where possible.

SECTION 14: TRANSPORTATION INFORMATION

INSECTICIDES, FUNGICIDES, INSECT/ANIMAL
REPELLENTS, NOI

NMFC: 102120

The information provided is for domestic highway transportation only. This product may be regulated differently when shipped in other types of containers or by modes other than that addressed by this section of the MSDS. For information, please contact Regulatory Affairs at 513/482-5022.

For RQ applicability, please see Section XV.

SECTION 15: REGULATORY INFORMATION

TSCA INVENTORY STATUS:

This product and/or all of its components are either included on or exempt from the TSCA Inventory of Chemical Substances.

TSCA 12(b) COMPONENTS:

None

SARA 311/312 HAZARD CATEGORIES: Acute

SARA 313 TOXIC CHEMICALS:

None

SARA 302 EXTREMELY HAZARDOUS SUBSTANCES:

None

CERCLA HAZARDOUS SUBSTANCES:

1,4-Dioxane(123-91-1) < 0.0010 %

CALIFORNIA PROPOSITION 65 COMPONENTS:

WARNING ! This product contains a chemical (or chemicals) known to the State of California to cause cancer, birth defects and/or other reproductive harm.

1,4-Dioxane(123-91-1) < 0.0010 %

SECTION 16: OTHER INFORMATION

HMIS RATINGS: HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

NFPA RATINGS: HEALTH: FLAMMABILITY: REACTIVITY: OTHER: None

THE FOLLOWING WARNING INFORMATION IS PROVIDED ON THE LABEL FOR THIS PRODUCT:

WARNING!

May cause minor eye irritation on prolonged or repeated contact.

FIRST AID - INHALATION:

If overexposure to vapor or mist occurs, immediately remove victim to fresh air. If victim has stopped breathing give artificial respiration, preferably mouth to mouth. Get medical attention immediately.

FIRST AID - SKIN CONTACT:

Wash affected area with soap and water.

FIRST AID - EYE CONTACT:

Immediately flush eyes with plenty of cool water for at least 15 minutes. Do not let victim rub eyes. Get medical attention if irritation develops.

FIRST AID - INGESTION:

If swallowed, get medical assistance. Do not induce vomiting.

HANDLING AND STORAGE:

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.

ABBREVIATIONS USED:

ND or N/D = Not Determined
NA or N/A = Not Applicable or Not Available
NE or N/E = Not Established
N/AP = Not Applicable

All information, recommendations, and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, express or implied, is made by Cognis Corporation as to the effects of such use, the results obtained, or the safety and toxicity of the product nor does Cognis Corporation assume any liability arising out of use, by others, of the product referred to herein. The information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

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