

# **Safety Data Sheet**

Issue Date: 31-Jul-2008 Revision Date: 24-Jul-2014 Version 1

# 1. IDENTIFICATION

**Product Identifier** 

Product Name Galigan 2E

Other means of identification

SDS # ADAMA-029

Registration Number(s) EPA Reg. No. 66222-28

Recommended use of the chemical and restrictions on use
Recommended Use EPA registered pesticide.

Details of the supplier of the safety data sheet

**Manufacturer Address** 

Makhteshim Agan of North America, Inc. (d/b/a ADAMA) 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604

Naieigii, NC 27004

**Emergency Telephone Number** 

Company Phone Number 1-919-256-9300

**Emergency Telephone (24 hr)** For fire, spill and/or leak contact INFOTRAC:

1-800-535-5053 (North America) 1-352-323-3500 (International)

For medical emergencies and health/safety inquiries, contact PROSAR:

1-877-250-9291

# 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

Appearance Amber liquid Physical State Liquid Odor Aromatic Solvent like

#### Classification

Reproductive toxicity	Category 1B
Aspiration toxicity	Category 1
Flammable Liquids	Category 4

# **Hazards Not Otherwise Classified (HNOC)**

May be harmful in contact with skin Causes mild skin irritation

# Signal Word

**Danger** 

#### **Hazard Statements**

May damage fertility or the unborn child May be fatal if swallowed and enters airways Combustible liquid



# **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Keep away from heat/sparks/open flames/hot surfaces. — No smoking

# **Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do not induce vomiting

IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

# **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# **Other Hazards**

Toxic to aquatic life with long lasting effects

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Naphtha (petroleum), heavy aromatic	64742-94-5	55.2-58.6
N-methyl-2-pyrrolidone	872-50-4	8.8-9.8

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

# 4. FIRST-AID MEASURES

#### **First Aid Measures**

**General Advice** When possible, have the product container or label with you when calling a poison control

center or doctor or going for treatment. If exposed or concerned: Get medical

advice/attention.

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**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Consult a physician if

necessary.

**Inhalation** Give oxygen if breathing is difficult. If breathing has stopped, call 911, give artificial

respiration.

Immediately call a poison center or doctor/physician. Do not induce vomiting.

# Most important symptoms and effects

**Symptoms** Causes mild skin irritation. Inhalation may cause irritation of respiratory tract. Prolonged

breathing of vapors may cause nausea, headache, weakness and/or dizziness. Ingestion may cause irritation of the gastrointestinal tract, cramps, vomiting or diarrhea. Aspiration of

material into lungs can cause chemical pneumonitis, which can be fatal.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically. If the product is ingested, probable mucosal damage may

contraindicate the use of gastric lavage.

# 5. FIRE-FIGHTING MEASURES

# Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). Dry chemical. Water spray (fog).

Unsuitable Extinguishing Media Not determined.

# **Specific Hazards Arising from the Chemical**

Combustible liquid. Vapors may travel to source of ignition and flash back. Vapors may form explosive mixtures with air.

Hazardous Combustion Products Chlorides. Fluorides. Nitrogen oxides (NOx).

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions Wear protective clothing as described in Section 8 of this safety data sheet. Isolate hazard

area. Keep unnecessary and unprotected personnel from entering.

Environmental Precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See

Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

# Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

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#### **Methods for Clean-Up**

Cover liquid spill with sand, earth or other non-combustible absorbent material. Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with federal, state and local regulations.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do

not eat, drink or smoke when using this product.

# Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep out of

> the reach of children. Do not contaminate water, food, or feed by storage or disposal. Keep/store only in original container. Store at ambient conditions. Do not transport or store

below 0 C/32 F. Protect from freezing. Store locked up.

**Packaging Materials** Do not reuse container.

**Incompatible Materials** Oxidizing agents. Acids. Alkalis.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

#### **Appropriate engineering controls**

**Engineering Controls** THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL

PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS OF END USE PRODUCTS CONTAINING THIS MATERIAL, CONSULT THE SDS OR PRODUCT LABEL FOR THE END USE PRODUCT.

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear long-

sleeved shirt, long pants, and shoes plus socks. Use chemical resistant gloves, such as

P.V.C., butyl-rubber, nitrile-rubber, or neoprene.

**Respiratory Protection** NIOSH-approved respirator or mask in the absence of adequate ventilation.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash face, hands

and any exposed skin thoroughly after handling. Take off all contaminated clothing and wash it before reuse. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical StateLiquidAppearanceAmber liquidOdorAromatic Solvent likeColorAmberOdor ThresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 5.0-7.0

Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point 71 °C / 160 °F

Evaporation Rate Not determined Liquid-not applicable 7% by volume 10.00% by vo

Upper Flammability Limits 7% by volume
Lower Flammability Limit 0.8% by volume
Vapor Pressure Not determined
Vapor Density Not determined

Specific Gravity 1.08 @ 24°C/75°F

Water Solubility
Solubility in other solvents
Partition Coefficient
Auto-ignition Temperature
Decomposition Temperature
Kinematic Viscosity
Dynamic Viscosity
Not determined

Explosive Properties

Oxidizing Properties

Not determined

Not determined

240 g/L (2lb/gal)

@ 22°C

# 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions.

# **Possibility of Hazardous Reactions**

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Keep out of reach of children.

#### **Incompatible Materials**

Oxidizing agents. Acids. Alkalis.

# **Hazardous Decomposition Products**

Chlorides. Fluorides. Nitrogen oxides (NOx).

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

Product Information

**Eye Contact** Avoid contact with eyes.

**Skin Contact** May be harmful in contact with skin. Causes mild skin irritation.

**Inhalation** Avoid breathing vapors or mists.

**Ingestion** Do not taste or swallow.

# **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Naphtha (petroleum), heavy aromatic	> 5000 mg/kg (Rat)	> 2000 mg/kg ( Rabbit )	> 590 mg/m³ (Rat) 4 h
64742-94-5			
N-methyl-2-pyrrolidone 872-50-4	= 3598 mg/kg ( Rat )	= 8 g/kg (Rabbit)	= 3.1 mg/L (Rat) 4 h

# Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

**Reproductive toxicity** May damage fertility or the unborn child.

**Aspiration hazard** May be fatal if swallowed and enters airways.

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# **Numerical measures of toxicity**

Not determined

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning or equipment or disposal of equipment washwaters. This product is highly toxic to aquatic invertebrates, aquatic plants, wildlife, and fish. Use with care when applying in areas frequented by wildlife or adjacent to any body of water or wetland area. Do not apply when weather conditions favor drift or erosion from target areas.

# **Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Naphtha (petroleum), heavy	2.5: 72 h Skeletonema	19: 96 h Pimephales		0.95: 48 h Daphnia magna
aromatic	costatum mg/L EC50	promelas mg/L LC50 static		mg/L EC50
64742-94-5	_	2.34: 96 h Oncorhynchus		_
		mykiss mg/L LC50 1740: 96		
		h Lepomis macrochirus mg/L		
		LC50 static 45: 96 h		
		Pimephales promelas mg/L		
		LC50 flow-through 41: 96 h		
		Pimephales promelas mg/L		
		LC50		
N-methyl-2-pyrrolidone	500: 72 h Desmodesmus	832: 96 h Lepomis		4897: 48 h Daphnia magna
872-50-4	subspicatus mg/L EC50	macrochirus mg/L LC50		mg/L EC50
		static 1072: 96 h Pimephales		
		promelas mg/L LC50 static		
		1400: 96 h Poecilia reticulata		
		mg/L LC50 static		

# Persistence/Degradability

Not determined.

# **Bioaccumulation**

Not determined.

# **Mobility**

Chemical Name	Partition Coefficient
Naphtha (petroleum), heavy aromatic 64742-94-5	6.1
N-methyl-2-pyrrolidone 872-50-4	-0.46

# **Other Adverse Effects**

Not determined

# 13. DISPOSAL CONSIDERATIONS

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#### **Waste Treatment Methods**

Disposal of Wastes END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL

RECOMMENDATIONS.

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

# 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

**DOT** Not regulated

<u>IATA</u> Not regulated

**IMDG** 

UN/ID No UN3082

Proper Shipping Name Environmentally Hazardous Substance, liquid, n.o.s. (oxyfluorfen)

Hazard Class 9
Packing Group |

Marine Pollutant This product contains a chemical which is listed as a marine pollutant according to

IMDG/IMO

# 15. REGULATORY INFORMATION

#### **International Inventories**

TSCA All ingredients are listed or exempt from listing on Chemical Substance Inventory

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# US Federal Regulations

# SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

#### **SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
N-methyl-2-pyrrolidone - 872-50-4	872-50-4	8.8-9.8	1.0

# **US State Regulations**

# **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65	
N-methyl-2-pyrrolidone - 872-50-4	Developmental	

# U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
N-methyl-2-pyrrolidone	X	X	X
872-50-4			

#### **EPA Pesticide Registration Number** 66222-28

# **EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

# **EPA Pesticide Label**

Signal Word: Warning

Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through the skin. Do not get in eyes or on clothing. Avoid contact with skin. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash clothes before reuse.

Difference between SDS and EPA pesticide label Signal Word Warning Danger Acute toxicity - Oral Harmful if swallowed N/A Harmful if absorbed May be harmful in contact with Acute toxicity - Dermal through the skin Skin corrosion/irritation N/A Causes mild skin irritation Causes substantial but Serious eye damage/eye irritation temporary eye injury May damage fertility or the unborn Reproductive toxicity

N/A

N/A

# 16. OTHER INFORMATION

May be fatal if swallowed and

enters air

NFPA_	Health Hazards	Flammability	Instability	Special Hazards
	2	2	0	Not determined
HMIS_	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	2	0	Not determined

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# Disclaimer

Aspiration Hazard

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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