

Safety Data Sheet

Issue Date: 08-Oct-2008 Revision Date: 25-Sept-2015 Version 2

1. IDENTIFICATION

Product Identifier

Product Name Diazinon 50 W

Other means of identification

SDS # ADAMA-015

Registration Number(s) EPA Reg. No. 66222-10

UN/ID No UN3077

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 1-919-256-9300

Emergency Telephone Number

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

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.

AppearanceOff-white powderPhysical StateSolidOdor Sulfur

Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Gases)	Category 3
Acute toxicity - Inhalation (Vapors)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Carcinogenicity	Category 1B

Hazards Not Otherwise Classified (HNOC)

May be harmful in contact with skin

Signal Word

Danger

Hazard Statements

Harmful if swallowed Harmful if inhaled May cause cancer





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
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician

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

Rinse mouth

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Diazinon	333-41-5	57

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.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Seek medical advice.

Skin Contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. Call a poison control center or doctor for treatment advice.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

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

artificial respiration. Call a POISON CENTER or doctor/physician.

Ingestion

Do not induce vomiting, unless directed by medical personnel. Get immediate medical attention. Drink plenty of water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects

Symptoms

Causes moderate eye irritation. Prolonged contact may cause skin irritation or allergic reaction. May exhibit symptoms of cholinesterase inhibition which may include: headache, dizziness, blurred vision, weakness, nausea, cramps, diarrhea, discomfort in the chest, nervousness, sweating, miosis (pinpoint pupils), tearing, salivation, pulmonary edema, uncontrollable muscle twitches, convulsions, cyanosis, coma, and loss of reflexes and sphincter control. If swallowed and aspirated into the lungs, chemical pneumonia can occur. Exposure may result in eye and skin irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically. This product contains an organophosphate that inhibits

cholinesterase. If exposed, plasma and red blood cell cholinesterase test may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide (CO2). Dry chemical. Foam.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Product is not flammable.

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. Evacuate area of unprotected personnel. Remain upwind of fire to avoid hazardous vapors and decomposition products. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

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.

Methods for Clean-Up

Sweep up with a minimum of dusting. Place in appropriate containers for disposal. Wash

spill area with a strong detergent and water solution; rinse with water, but minimize water use during clean-up. Do not flush to sewer. Collect run-off water and transfer to drums or

tanks for later disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Use personal protection recommended in Section 8. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash face, hands, and any exposed skin thoroughly after handling. Avoid breathing dusts. Use only outdoors or in a well-ventilated area. Do not eat, drink, smoke, or

apply cosmetics while handling 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. Store locked

up. Store at ambient conditions.

Incompatible MaterialsNone known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diazinon 333-41-5	TWA: 0.01 mg/m ³ inhalable fraction and vapor	(vacated) TWA: 0.1 mg/m ³ (vacated) S*	TWA: 0.1 mg/m ³
	S*		

Appropriate engineering controls

Engineering Controls Please refer to the product label. Use only with adequate ventilation. Use process

enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure

to airborne contaminants below any recommended or statutory limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Avoid contact with eyes.

Skin and Body ProtectionWear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of

exposure. Long sleeve shirt, trousers, and safety shoes.

Respiratory Protection Ensure adequate ventilation, especially in confined areas. Wear a respirator with an

organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter when engineering controls are not

feasible.

General Hygiene Considerations 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. Wash at the end of each work shift and before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Discard contaminated leather articles. Launder or

discard contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Solid

AppearanceOff-white powderOdorSulfur

Color Off-white Odor Threshold Not determined

PropertyValuesRemarks • MethodpH8-10(1% solution)

pH 8-10
Melting Point/Freezing Point Not determined

Boiling Point/Boiling Range
Flash Point
Evaporation Rate
Flammability (Solid, Gas)
Upper Flammability Limits
Lower Flammability Limit
Vapor Pressure

Not determined

Vapor Pressure1.20E-02 PaVapor DensityNot determinedSpecific GravityNot determinedWater Solubility60 mg/L @ 20°C

Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** >400 °C / >752 °F **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined **Bulk Density** 24 lbs/cu.ft.

@ 25°C (77°F)

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

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

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.

Inhalation Toxic if inhaled.

Ingestion Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Diazinon	= 66 mg/kg (Rat)	> 2150 mg/kg (Rat) = 3600 mg/kg	> 2.33 mg/L (Rat) 4 h
333-41-5		(Rabbit)	• , ,
Water	> 90 mL/kg (Rat)	-	-
7732-18-5			

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 May cause cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
Diazinon		Group 2A		X
333-41-5		•		

LEGEND

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Product Information (Numerical measures of toxicity)

Acute Oral LD50 (Rat): >1,960 mg/kg Acute Dermal LD50 (Rabbit): >2,020 mg/kg Acute Inhalation LC50 (Rat): >3 mg/L (4-hr)

Eye Irritation: Mildly irritating. **Dermal Irritation**: Mildly irritating. **Dermal Sensitization**: Not a sensitizer.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects. This product is highly toxic to birds, fish and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds, especially waterfowl. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab and other aquatic life are important resources. This pesticide is highly toxic to bees exposed to direct treatment or to residues on blooming crops or weeds. Do not apply this pesticide or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
	150 1001 5		microorganisms	
Diazinon	17.3: 120 h Desmodesmus	0.4 - 0.8: 96 h Pimephales	EC50 = 1.7 mg/L 5 min	0.00096: 48 h Daphnia
333-41-5	subspicatus mg/L EC50 6.4:	promelas mg/L LC50 flow-		magna mg/L EC50 0.0004 -
	168 h Desmodesmus	through 4.7: 96 h		0.00059: 48 h Daphnia
	subspicatus mg/L EC50	Pimephales promelas mg/L		magna mg/L EC50 Static
		LC50 semi-static 3.4 - 5.2:		0.0006 - 0.0009: 48 h
		96 h Pimephales promelas		Daphnia magna mg/L EC50
		mg/L LC50 static 0.31 - 0.62:		semi-static
		96 h Lepomis macrochirus		
		mg/L LC50 flow-through		
		0.022: 96 h Lepomis		
		macrochirus mg/L LC50		
		0.022: 96 h Lepomis		
		macrochirus mg/L LC50		
		static 0.09: 96 h		
		Oncorhynchus mykiss mg/L		
		LC50 static 2.3: 96 h		
		Oncorhynchus mykiss mg/L		
		LC50 4: 96 h Poecilia		
		reticulata mg/L LC50 0.8: 96		
		h Poecilia reticulata mg/L		
		LC50 semi-static 3: 96 h		
		Poecilia reticulata mg/L		
		LC50 static 3.43: 96 h		
		Cyprinus carpio mg/L LC50		
		semi-static 0.000072: 96 h		
		Cyprinus carpio mg/L LC50		
		static		

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Diazinon	3.3
333-41-5	

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Pesticide wastes are toxic. 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 of the nearest EPA Regional Office for guidance.

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

regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Diazinon	Toxic
333-41-5	

14. TRANSPORT INFORMATION

DOT

UN/ID No UN3077

Proper Shipping Name Environmentally hazardous substance, solid, n.o.s. (diazinon) RQ

Hazard Class 9
Packing Group III

Reportable Quantity (RQ) RQ if package contains > 1.0 lbs.

Marine Pollutant Yes, if package larger than 882 Lbs. (400 Kg)

<u>IATA</u>

UN/ID No UN3077

Proper Shipping Name Environmentally hazardous substance, solid, n.o.s. (diazinon)

Hazard Class 9
Packing Group III

Description Marine Pollutant

IMDG

UN/ID No UN3077

Proper Shipping Name Environmentally hazardous substance, solid, n.o.s. (diazinon)

Hazard Class 9
Packing Group III

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

IMDG/IMO

15. REGULATORY INFORMATION

International Inventories

TSCA Listed

Legend:

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

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Diazinon	1 lb		RQ 1 lb final RQ
333-41-5			RQ 0.454 kg final RQ

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 %
Diazinon - 333-41-5	333-41-5	57	1.0

CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Diazinon	1 lb			X
333-41-5 (57)				

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Diazinon	X	X	X
333-41-5			

EPA Pesticide Registration Number EPA Reg. No. 66222-10

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: Caution

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid breathing dust or spray mist. Avoid contact with skin, eyes, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contamination of food and feed. Do not use on humans or pets. Keep out of reach of domestic animals. Be sure to read and follow WORK SAFETY RULES and worker protection precautions appearing on this label.

Difference between SDS and EPA pesticide label

	EPA	OSHA
Signal Word	Caution	Danger
Acute toxicity - Oral	Harmful if swallowed	Harmful if swallowed
Acute toxicity - Dermal	Harmful if absorbed through skin	May be harmful in contact with skin
Acute toxicity - Inhalation (Dusts/Mists)	Harmful if inhaled	Harmful if inhaled
Serious eye damage/eye irritation	Causes moderate eye	
	irritation	N/A
Carcinogenicity	N/A	May cause cancer

16. OTHER INFORMATION

NFPAHealth HazardsFlammabilityInstabilitySpecial Hazards100None

<u>HMIS</u> Health Hazards Flammability Physical Hazards Personal Protection

0 0 See section 8

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Disclaimer

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 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