

# Safety Data Sheet

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Version 1

# 1. IDENTIFICATION

<u>Product Identifier</u> Product Name	Quali-Pro 3-D	
Other means of identification SDS #	ADAMA-136	
Registration Number(s) UN/ID No	Reg. No. 66222-225 UN3082	
Recommended use of the chemica	l and restrictions on use	
Recommended Use	EPA registered insecticide.	
Manufacturer Address Makhteshim Agan of North America, 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604 Emergency Telephone Number Company Phone Number	Inc. (d/b/a ADAMA) 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		
certain labeling requirements under	s chemical is a product registered by the Environmental Protection Agency and is subject to federal law. These requirements differ from the classification criteria and hazard information for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.	

Appearance Clear amber liquid

Physical State Liquid

Odor Typical phenoxy herbicide odor

**Classification** 

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 2

<u>Signal Word</u> Danger

## Hazard Statements

Harmful if swallowed Causes skin irritation Causes serious eye damage May cause an allergic skin reaction Suspected of causing 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 Contaminated work clothing should not be allowed out of the workplace Wear protective gloves

## Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a poison center or doctor/physician IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash it before reuse If skin irritation or rash occurs: Get medical advice/attention IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Do not induce vomiting

## Precautionary Statements - Storage

Store locked up

## 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-%
2,4-D Amine	2008-39-1	29.64-31.48
Mecoprop-p, DMA Salt	32351-70-5	7.76-8.58
(R)-2-(4-Chloro-2-methylphenoxy)propionic acid	16484-77-8	5-10
Dimethylamine	124-40-3	3.90-4.31

\*\*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.	
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.	
Skin Contact	In case of contact, wash skin thoroughly with soap and water. Remove any contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.	
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. Seek medical attention for further treatment.	
Ingestion	Do not induce vomiting, unless directed by medical personnel. Get immediate medical attention. If conscious, give 1 glass of water to dilute. Never give anything by mouth to an unconscious person.	
Most important symptoms and eff	<u>ects</u>	
Symptoms	Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction.	
Indication of any immediate medical attention and special treatment needed		
Notes to Physician	Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.	

## **5. FIRE-FIGHTING MEASURES**

## Suitable Extinguishing Media

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

Unsuitable Extinguishing Media Not determined.

#### Specific Hazards Arising from the Chemical

Not determined.

**Hazardous Combustion Products** Oxides of nitrogen. Ammonia. Chlorine compounds. Other unidentified toxic and/or irritating compounds. Hydrogen chloride. Carbon monoxide. Asphyxiants.

## 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 contain	ment and cleaning up		
Methods for Containment	Prevent further leakage or spillage if safe to do so. Dike far ahead of spill; use dry sand to contain the flow of material.		
Methods for Clean-Up	Collect and reuse if possible. Absorb with inert material and then place in suitable container for chemical waste. Wash down area and collect water for disposal. Clean up in accordance with all applicable regulations.		

## 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. Avoid breathing vapors or mists. Follow all product label instructions. Use only as directed. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

## 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. Store at ambient conditions. Do not contaminate water, food, or feed by storage or disposal. Store locked up. Keep/store only in original container. Keep from freezing. Protect container from physical damage. Store in accordance with all state, local, and federal regulations.
Packaging Materials	Do not reuse container.
Incompatible Materials	Strong oxidizing agents. Acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Dimethylamine	STEL: 15 ppm	TWA: 10 ppm	IDLH: 500 ppm
124-40-3	TWA: 5 ppm	TWA: 18 mg/m <sup>3</sup>	TWA: 10 ppm
		(vacated) TWA: 10 ppm	TWA: 18 mg/m <sup>3</sup>
		(vacated) TWA: 18 mg/m <sup>3</sup>	

## Appropriate engineering controls

Engineering ControlsTHE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL<br/>PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION,<br/>PACKAGING AND USE OF THIS PRODUCT. FOR COMMERCIAL APPLICATIONS<br/>AND/OR ON-FARM APPLICATIONS OF END USE PRODUCTS CONTAINING THIS<br/>MATERIAL, CONSULT THE SDS OR PRODUCT LABEL FOR THE END USE PRODUCT.

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

Eye/Face Protection	Use splash goggles or face shield when contact may occur.		
Skin and Body Protection	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Viton or other impervious gloves are required. Long sleeve shirt, trousers, and safety shoes.		
Respiratory Protection	Ensure adequate ventilation, especially in confined areas. Wear an appropriate NIOSH/MSHA approved respirator if ventilation is inadequate.		

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical State Appearance	Liquid Clear amber liquid	Odor	Typical phenoxy herbicide
Color	Clear amber	Odor Threshold	odor Not determined
<u>Property</u> pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point	<u>Values</u> 8.5-9.0 (neat) Not determined 100 °C / 212 °F Does not flash	<u>Remarks • Method</u>	
Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limits Lower Flammability Limit Vapor Pressure Vapor Density Specific Gravity Water Solubility Solubility in other solvents Partition Coefficient Auto-ignition Temperature Decomposition Temperature Kinematic Viscosity Dynamic Viscosity Explosive Properties Oxidizing Properties	Lower than butyl acetate Liquid-not applicable None established 0.021 mmHg Not determined Not determined Miscible in water Not determined Not determined	(butyl acetate = 1)	
Density Bulk Density	1.13 g/mL 9.42 lb/gal		

## **10. STABILITY AND REACTIVITY**

## Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions. However, may decompose if heated.

## **Possibility of Hazardous Reactions**

None under normal processing.

### Hazardous Polymerization

Material is not known to polymerize.

## Conditions to Avoid

See Sec. 7 Handling & Storage.

#### **Incompatible Materials**

Strong oxidizing agents. Acids.

#### Hazardous Decomposition Products

Nitrogen oxides (NOx). Ammonia. Chlorine compounds. Other potentially hazardous fumes. Hydrogen chloride. Incomplete combustion may produce monoxide and other asphyxiates.

## **11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

Product Information	
Eye Contact	Causes serious eye damage.
Skin Contact	Causes skin irritation.
Inhalation	Avoid breathing vapors or mists.
Ingestion	Harmful if swallowed.

## Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2,4-D Amine 2008-39-1	= 625 mg/kg (Rat)	= 2115 mg/kg (Rabbit)	-
(R)-2-(4-Chloro-2-methylphenoxy)pr opionic acid 16484-77-8	= 1050 mg/kg (Rat)	> 4 g/kg (Rat)	-
Dimethylamine 124-40-3	= 698 mg/kg (Rat)	= 3900 mg/kg (Rat)	= 4540 ppm (Rat)6 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

Sensitization May cause an allergic skin reaction.

Carcinogenicity

Suspected of causing cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
(R)-2-(4-Chloro-2-methylphe		Group 2B		Х
noxy)propionic acid				
16484-77-8				

Legend

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

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

## Numerical measures of toxicity

Not determined

## **12. ECOLOGICAL INFORMATION**

## Ecotoxicity

Toxic to aquatic life with long lasting effects. This product is toxic to fish and aquatic invertebrates and may adversely affect non-target plants. 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 water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

## Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Dimethylamine 124-40-3	9: 96 h Pseudokirchneriella subcapitata mg/L EC50	111 - 125: 96 h Oncorhynchus mykiss mg/L LC50 120: 96 h Oncorhynchus mykiss mg/L LC50 static 210: 96 h Poecilia reticulata mg/L LC50 static 127 - 349: 96 h Poecilia reticulata mg/L LC50 semi-static 396: 96 h Brachydanio rerio mg/L LC50 static	EC50 = 26.8 mg/L 15 min	88.7: 48 h Daphnia magna Straus mg/L EC50

## Persistence/Degradability

Not determined.

#### **Bioaccumulation**

Not determined.

## Mobility

Chemical Name	Partition Coefficient
Dimethylamine	-0.274
124-40-3	

#### Other Adverse Effects

Not determined

## 13. DISPOSAL CONSIDERATIONS

## Waste Treatment Methods

Disposal of WastesPesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate<br/>is a violation of Federal law. If these wastes cannot be disposed of by use according to<br/>label instructions, contact your State Pesticide or Environmental Control Agency, or the<br/>Hazardous Waste representative of the nearest EPA Regional Office for guidance.Contaminated PackagingDisposal should be in accordance with applicable regional, national and local laws and<br/>regulations.

#### US EPA Waste Number

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
2,4-D Amine 2008-39-1	U240			U240
Dimethylamine 124-40-3				U092

## California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Dimethylamine	Toxic
124-40-3	Ignitable

# **14. TRANSPORT INFORMATION**

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
<u>DOT</u> UN/ID No Proper Shipping Name Hazard Class Packing Group	Package size <35 gallons is not regulated by D.O.T. ground UN3082 Environmentally Hazardous Substance, Liquid, N.O.S. (2,4-dichlorophenoxyacetic acid) 9 III
IATA_	Not regulated
IMDG Marine Pollutant	This material may meet the definition of a marine pollutant

# 15. REGULATORY INFORMATION

## International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
2,4-D Amine				Present			Х		Х	Х
Mecoprop-p, DMA Salt				Present			Х			
(R)-2-(4-Chloro-2-methylphe noxy)propionic acid				Present						
Dimethylamine	Present	Х		Present		Present	Х	Present	Х	Х

#### 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

## **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
2,4-D Amine 2008-39-1	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
Dimethylamine 124-40-3	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Dimethylamine - 124-40-3	124-40-3	3.90-4.31	1.0

#### CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Dimethylamine	1000 lb			Х

## US State Regulations

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Dimethylamine	Х	X	Х
124-40-3			

## EPA Pesticide Registration Number Reg. No. 66222-225

#### **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: Danger

Corrosive. Causes irreversible eye damage. Do not get in eyes or on skin or clothing. Harmful if swallowed.

#### Difference between SDS and EPA pesticide label

	EPA	OSHA
Signal Word	Danger	Danger
Acute toxicity - Oral	Harmful if swallowed	Harmful if swallowed
Skin corrosion/irritation	N/A	Causes skin irritation
Serious eye damage/eye irritation	Causes irreversible eye damage	Causes serious eye damage
Skin sensitization	N/A	May cause an allergic skin reaction

# **16. OTHER INFORMATION**

<u>NFPA</u> HMIS	Health Hazards 3 Health Hazards 3	Flammability 0 Flammability 0	Instability 0 Physical Hazards 0	Special Hazards Not determined Personal Protection H
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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 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**