

Safety Data Sheet

Issue Date: 07-Jan-2013 Revision Date: 06-Nov-2015 Version 2

1. IDENTIFICATION

Product Identifier

Product Name VISE

Other means of identification

SDS # ADAMA-046

Registration Number(s) EPA Reg. No. 66222-244

UN/ID No UN3082

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.

Appearance Light amber liquid Physical State Liquid Odor Mild

Classification

Acute toxicity – Inhalation (Dusts/Mists)	Category 4
Eye Damage/Irritation	Category 2

Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed May be harmful in contact with skin

Signal Word

Warning

Hazard Statements

Harmful if inhaled Causes serious eye irritation



<u>Precautionary Statements - Prevention</u>

Avoid breathing dusts/mists
Use only outdoors or in a well-ventilated area
Wash hands, face, and exposed skin thoroughly after washing

<u>Precautionary Statements – Response</u>

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a poison center/doctor if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

If eye irritation persists: Get medical advice/attention

Other Hazards

Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Metolachlor II	51218-45-2	46.81-49.71
Fomesafen	72178-02-0	9.31-10.29

^{**}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.

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a poison control center or doctor for

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

respiration. Call a poison control center or doctor for further treatment advice.

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

directed by medical personnel. Never give anything by mouth to an unconscious person.

Most important symptoms and effects

Symptoms May be harmful if swallowed. May be harmful in contact with skin.

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. Dry chemical. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Can burn under fire conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous Combustion Products May emit toxic fumes under fire conditions.

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 Reclaim where possible. Absorb with inert material or sweep up, and then place in suitable

container for chemical waste. Wash area with soap and water. Pick up wash liquid with inert

absorbent and place in a chemical waste container for disposal.

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. Wash face, hands, and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Use in accordance with product label instructions. 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. Keep out of

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

Incompatible MaterialsNone known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines The following information is given as general guidance

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 Wear safety glasses with side shields (or goggles). Goggles are recommended.

Skin and Body ProtectionWear 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.

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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 State Liquid

Appearance Light amber liquid Odor Mild

Color **Odor Threshold** Light amber Not determined

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

Ha 6.87

Melting Point/Freezing Point Not determined **Boiling Point/Boiling Range** Not determined **Flash Point** > 110 °C / > 230 °F **Evaporation Rate** Not determined Flammability (Solid, Gas) Liquid-not applicable **Upper Flammability Limits** Not applicable **Lower Flammability Limit** Not applicable **Vapor Pressure** Not determined **Vapor Density** Not determined Specific Gravity Not determined Not determined

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

Dynamic Viscosity 205@25°C; 95.7@40°C centipoise

Explosive Properties Not determined **Oxidizing Properties** Not determined

Density 1.108 g/cm3 @25°C (9.22 lb/gal)

1.095 g/cm3 @ 40°C (9.14 lb/gal)

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 Not known to occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

May emit toxic fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Causes serious eye irritation.

Skin Contact May be harmful in contact with skin.

Inhalation Harmful if inhaled.

Ingestion May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Metolachlor II	= 2200 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 1750 mg/m³ (Rat) 4 h
51218-45-2			
Fomesafen	= 1250 mg/kg (Rat)	> 1 g/kg (Rabbit)	-
72178-02-0			

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.

Product Information (Numerical measures of toxicity)

Acute Oral LD50 (Rat): >2,000 mg/kg
Acute Dermal LD50 (Rabbit): >5,000 mg/kg
Acute Inhalation LC50 (Rat): >2.04 mg/L (4-hr)

Eye Irritation: Severely irritating. **Dermal Irritation**: Moderately irritating. **Dermal Sensitization**: Not a skin sensitizer.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects. For terrestrial uses only. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters or rinsate. Do not apply when weather conditions favor drift from target area.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	

Metolachlor II	57.1: 72 h Desmodesmus	8.6 - 12: 96 h Lepomis	25.1: 48 h Daphnia magna
51218-45-2	subspicatus mg/L EC50	macrochirus mg/L LC50	mg/L LC50 4.25: 48 h
	static 0.0448 - 0.0568: 96 h	static 3.3 - 4.6: 96 h	Daphnia magna mg/L EC50
	Pseudokirchneriella	Oncorhynchus mykiss mg/L	13 - 18.4: 48 h Daphnia
	subcapitata mg/L EC50	LC50 static 5.4 - 12: 96 h	magna mg/L EC50 Static
	static	Pimephales promelas mg/L	
		LC50 static 7.4 - 10.5: 96 h	
		Poecilia reticulata mg/L	
		LC50 static	

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

<u>meenty</u>	
Chemical Name	Partition Coefficient
Metolachlor II	2.9
51218-45-2	

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

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.

14. TRANSPORT INFORMATION

DOT Package size less than 119 Gallons (450 Lt.): Not regulated

Package size larger than 119 Gallons (450 Lt.):

UN3082, Environmentally hazardous substance, liquid, n.o.s. (Metolaclor), 9, PG III, Marine

pollutant.

IATA

UN/ID No UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (Metolaclor)

Hazard Class 9
Packing Group III

IMDG

UN/ID No UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (Metolaclor)

Hazard Class 9
Packing Group III
Marine Pollutant Yes

15. REGULATORY INFORMATION

International Inventories

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

Legend:

TSCA

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

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 %
Fomesafen - 72178-02-0	72178-02-0	9.31-10.29	1.0

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
Metolachlor II	X		
51218-45-2			
Fomesafen	X		
72178-02-0			

EPA Pesticide Registration Number 66222-244

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. Harmful if swallowed. Do not get in eyes or on clothing. This product may cause skin sensitization reactions in some people. Wear appropriate protective eyewear such as goggles or face shield. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and 'wash contaminated clothing before reuse.

Difference between SDS and FPA pesticide label

Difference between SDS and EPA pesticide label			
	EPA	OSHA	
Signal Word	Danger	Warning	
Acute toxicity - Oral	Harmful if swallowed	May be harmful if swallowed	
Acute toxicity - Dermal	N/A	May be harmful in contact with skin	
Acute toxicity – Inhalation	N/A	Harmful if inhaled	
Serious eye damage/eye irritation	Causes irreversible eye damage	Causes serious eye irritation	
Skin sensitization	May cause skin sensitization reactions in some people	N/A	

16. OTHER INFORMATION

NFPAHealth HazardsFlammabilityInstabilitySpecial Hazards310NoneHMISHealth HazardsFlammabilityPhysical HazardsPersonal Protection310See section 8

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Revision Note: Updated format from 28-Aug-2014

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