

# **Safety Data Sheet**

Issue Date: 18-Nov-2014 Revision Date: 23-Feb-2021 Version 3

# 1. IDENTIFICATION

Product Identifier

Product Name Glory 4L

Other means of identification

SDS # ADAMA-168

Registration Number(s) EPA Reg. No. 66222-256

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 Milky white liquid Physical State Liquid Odor Bitter

# Classification

Acute toxicity - Oral	Category 4
Reproductive toxicity	Category 1B

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

May be harmful in contact with skin

Signal Word

Danger

# **Hazard Statements**

Harmful if swallowed

May damage fertility or the unborn child



#### **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

## <u>Precautionary Statements - Response</u>

If exposed or concerned: Get medical advice/attention
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

# **Precautionary Statements - Storage**

Store locked up

# **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-%
Metribuzin	21087-64-9	42.31-44.92
Proprietary Solvent	-	<5

<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.

**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 Take off contaminated clothing. 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.

**Ingestion** 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. If

conscious, give 1 glass of water to dilute.

#### Most important symptoms and effects

**Symptoms** Harmful if swallowed. Mild eye, skin, and/or respiratory irritation.

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

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Water. Dry chemical.

Unsuitable Extinguishing Media Not determined.

#### **Specific Hazards Arising from the Chemical**

Product is not flammable. Dust may form an explosive mixture with air at high concentrations.

**Hazardous Combustion Products** Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO2). Sulfur dioxide. Methyl mercaptan. Amines.

## 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. See

Section 12 for additional Ecological Information.

#### 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. Vacuum or sweep up material and place in a disposal container.

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. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid

spilling.

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#### Conditions for safe storage, including any incompatibilities

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

> 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. Store

locked up. Do not exceed 30 day average of 100° F (37.78° C).

**Incompatible Materials** Ketones. Aldehydes. Alkaline conditions. Strong caustics.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Metribuzin	TWA: 5 mg/m <sup>3</sup>	(vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
21087-64-9	_		_

## 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 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 State** Liquid

Milky white liquid **Appearance** Odor Ritter

Color **Odor Threshold** Milky white Not determined

Property Remarks • Method Values

Melting Point/Freezing Point Not determined **Boiling Point/Boiling Range** Not determined **Flash Point** Not applicable **Evaporation Rate** Not applicable Flammability (Solid, Gas) Not determined **Upper Flammability Limits** Not applicable **Lower Flammability Limit** Not applicable **Vapor Pressure** Not determined **Vapor Density** Not determined

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

**Dynamic Viscosity** 1338 centipoise @ 24°C/75°F

Explosive PropertiesNot determinedOxidizing PropertiesNot determinedDensity9.24 lbs/gal @ 24° 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. Temperatures >100 ° C. Store away from foodstuffs, animal feed, and incompatibles.

#### **Incompatible Materials**

Ketones. Aldehydes. Alkaline conditions. Strong caustics.

#### **Hazardous Decomposition Products**

May emit toxic fumes under fire conditions. Carbon dioxide (CO2). Sulfur dioxide. Methyl mercaptan. Amines.

## 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** Do not inhale.

**Ingestion** Harmful if swallowed.

**Component Information** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	
Metribuzin	= 2020 mg/kg (Rat) = 1100 mg/kg	> 2000 mg/kg (Rat) > 20 g/kg (	> 860 mg/m³ (Rat) 4 h	
21087-64-9	(Rat)	Rabbit) = $2 g/kg (Rat)$		
Proprietary Solvent	= 20000 mg/kg ( Rat )	= 20800 mg/kg (Rabbit)	-	

## 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** Based on the information provided, 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): 1,078 mg/kg (female rat) 1,865 mg/kg (male rat)

Acute Dermal LD50 (Rabbit): >2,000 mg/kg Acute Inhalation LC50 (Rat): >3.055 mg/L (4-hr)

**Eye Irritation**: Minimally irritating. **Dermal Irritation**: Mildly irritating.

Dermal Sensitization: Not a dermal sensitizer.

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects. For terrestrial uses, 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 apply when weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwaters.

**Component Information** 

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Proprietary Solvent	19000: 96 h Pseudokirchneriella subcapitata mg/L EC50	51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50 51600: 96 h Oncorhynchus mykiss mg/L LC50 static 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static		1000: 48 h Daphnia magna mg/L EC50 Static 10000: 24 h Daphnia magna mg/L EC50

#### Persistence/Degradability

Not determined.

#### Bioaccumulation

Not determined.

# **Mobility**

Not determined

## **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.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated.

IATA

UN/ID No UN3082

**Proper Shipping Name** Environmentally hazardous substances, liquid, N.O.S. (Metribuzin)

Hazard Class9Packing GroupIIIMarine PollutantYes

**IMDG** 

UN/ID No UN3082

Proper Shipping Name Environmentally hazardous substances, liquid, N.O.S. (Metribuzin)

Hazard Class 9
Packing Group III
Marine Pollutant Yes

# 15. REGULATORY INFORMATION

#### **International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Metribuzin				Present			Χ	Present		Χ
Proprietary Solvent	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

## 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 %
Metribuzin - 21087-64-9	21087-64-9	42.31-44.92	1.0

## **US State Regulations**

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Metribuzin	X	X	X
21087-64-9			
Proprietary Solvent	X		X

## **EPA Pesticide Registration Number** 66222-256

#### **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**

CAUTION. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, and clothing.

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 the skin	May be harmful in contact with skin
Reproductive toxicity	NA	May damage fertility or the unborn child

# **16. OTHER INFORMATION**

<u>NFPA</u>	<b>Health Hazards</b>	Flammability	Instability	Special Hazards
	1	0	0	None
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	0	0	See Section 8

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**Revision Note:** Updated format from 09-Oct-2015

#### 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**