

# Safety Data Sheet

## MARKSMAN HERBICIDE

Revision date : 2019/04/26  
Version: 6.0

Page: 1/14  
(30059356/SDS\_CPA\_US/EN)

### 1. Identification

#### Product identifier used on the label

## MARKSMAN HERBICIDE

#### Recommended use of the chemical and restriction on use

Recommended use\*: crop protection product, herbicide  
Recommended use\*: herbicide

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

Company:  
BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

#### Emergency telephone number

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Substance number: 57521  
EPA Registration number: 7969-136  
Chemical family: substituted, aromatic, carboxylic acid  
Synonyms: dicamba potassium salt ; atrazine

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### 2. Hazards Identification

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Classification of the product

STOT RE	2	Specific target organ toxicity — repeated exposure
Aquatic Acute	2	Hazardous to the aquatic environment - acute
Aquatic Chronic	2	Hazardous to the aquatic environment - chronic

# Safety Data Sheet

## MARKSMAN HERBICIDE

Revision date : 2019/04/26  
Version: 6.0

Page: 2/14  
(30059356/SDS\_CPA\_US/EN)

Carc. 1A (by inhalation) Carcinogenicity

### Label elements

Pictogram:



Signal Word:  
Danger

Hazard Statement:

H373 May cause damage to organs through prolonged or repeated exposure.  
H350 May cause cancer by inhalation.  
H401 Toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P201 Obtain special instructions before use.  
P273 Avoid release to the environment.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/gas/mist/vapours.

Precautionary Statements (Response):

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.  
P314 Get medical advice/attention if you feel unwell.  
P391 Collect spillage.

Precautionary Statements (Storage):

P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

### Hazards not otherwise classified

Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 1 - 3 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 0 - 1 % Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 0 - 1 % Inhalation - mist

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### 3. Composition / Information on Ingredients

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
1912-24-9	22.23 %	atrazine
10007-85-9	13.42 %	potassium salt of dicamba

# Safety Data Sheet

## MARKSMAN HERBICIDE

Revision date : 2019/04/26  
Version: 6.0

Page: 3/14  
(30059356/SDS\_CPA\_US/EN)

---

107-21-1	7.0 - 10.0%	ethylene glycol
577-11-7	< 1.0%	sodium-di-ethyl-hexyl-sulfosuccinate
64741-88-4	0.1 - 1.0%	Distillates (petroleum), solvent-refined heavy paraffinic
64742-65-0	0.1 - 1.0%	Distillates (petroleum), solvent-dewaxed heavy paraffinic
14808-60-7	0.1 - 1.0%	Quartz (SiO <sub>2</sub> )

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### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

Remove contaminated clothing.

##### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

##### If on skin:

Wash thoroughly with soap and water.

##### If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

##### If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

#### Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., (Further) symptoms and / or effects are not known so far

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

##### Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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### 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:

foam, dry powder, carbon dioxide, water spray

#### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, Hydrogen chloride, nitrogen oxide, nitrogen dioxide, halogenated hydrocarbons, To be archived: Hydrocarbons,

If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

#### Advice for fire-fighters

# Safety Data Sheet

## MARKSMAN HERBICIDE

Revision date : 2019/04/26  
Version: 6.0

Page: 4/14  
(30059356/SDS\_CPA\_US/EN)

Protective equipment for fire-fighting:  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### Further information:

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

### Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

### Methods and material for containment and cleaning up

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

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## 7. Handling and Storage

### Precautions for safe handling

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

### Protection against fire and explosion:

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

### Conditions for safe storage, including any incompatibilities

Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

# Safety Data Sheet

## MARKSMAN HERBICIDE

Revision date : 2019/04/26  
Version: 6.0

Page: 5/14  
(30059356/SDS\_CPA\_US/EN)

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed. Protect from temperatures above: 40 °C  
Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

### 8. Exposure Controls/Personal Protection

**Users of a pesticidal product should refer to the product label for personal protective equipment requirements.**

#### Components with occupational exposure limits

ethylene glycol	ACGIH TLV	TWA value 25 ppm Vapor fraction ; STEL value 50 ppm Vapor fraction ; STEL value 10 mg/m3 Aerosol, inhalable. ;
Potassium hydroxide	OSHA PEL ACGIH TLV	CLV 2 mg/m3 ; CLV 2 mg/m3 ;
atrazine	OSHA PEL ACGIH TLV	TWA value 5 mg/m3 ; TWA value 2 mg/m3 Inhalable fraction ;

#### **Advice on system design:**

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

#### Personal protective equipment

#### **RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**

##### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

##### **Hand protection:**

Protective glove selection must be based on the user's assessment of the workplace hazards.,  
Chemical resistant protective gloves

##### **Eye protection:**

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

##### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

# Safety Data Sheet

## MARKSMAN HERBICIDE

Revision date : 2019/04/26  
Version: 6.0

Page: 6/14  
(30059356/SDS\_CPA\_US/EN)

### General safety and hygiene measures:

Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

## 9. Physical and Chemical Properties

Form:	suspension
Odour:	mild
Odour threshold:	Not determined due to potential health hazard by inhalation.
Colour:	brown
pH value:	8.5 - 10
Melting point:	approx. 0 °C Information based on the main components.
Boiling point:	approx. 100 °C Information based on the main components.
Flash point:	A flash point determination is unnecessary due to the high water content.
Flammability:	not applicable
Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Autoignition:	not applicable
Vapour pressure:	approx. 23 hPa ( 20 °C) Information applies to the solvent.
Density:	approx. 1.17 g/cm <sup>3</sup> ( 20 °C) approx. 9.686 lb/USg ( 68 °F)
Partitioning coefficient n-octanol/water (log Pow):	The statements are based on the properties of the individual components.
<i>Information on: dicamb</i> Partitioning coefficient n-octanol/water (log Pow):	-1.8 ( 25 °C)
----- Self-ignition temperature:	Based on its structural properties the product is not classified as self-igniting.

(OECD Guideline 107)

# Safety Data Sheet

## MARKSMAN HERBICIDE

Revision date : 2019/04/26  
Version: 6.0

Page: 7/14  
(30059356/SDS\_CPA\_US/EN)

Thermal decomposition:	carbon monoxide, carbon dioxide, Hydrogen chloride, halogenated hydrocarbons, nitrogen dioxide, nitrogen oxide, To be archived: Hydrocarbons Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. If product is heated above decomposition temperature hazardous fumes may be released.
Viscosity, dynamic:	approx. 380 mPa.s ( 20 °C)
Solubility in water:	miscible
Evaporation rate:	not applicable
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

### 10. Stability and Reactivity

#### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

Not an oxidizer.

#### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

#### Possibility of hazardous reactions

The product is chemically stable.

Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

#### Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures.

#### Incompatible materials

strong bases, strong acids, strong oxidizing agents

#### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated., Prolonged thermal loading can result in products of degradation being given off.

Thermal decomposition:

Possible thermal decomposition products:

carbon monoxide, carbon dioxide, Hydrogen chloride, halogenated hydrocarbons, nitrogen dioxide, nitrogen oxide, To be archived: Hydrocarbons

Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. If product is heated above decomposition temperature hazardous fumes may be released.

# Safety Data Sheet

## MARKSMAN HERBICIDE

Revision date : 2019/04/26  
Version: 6.0

Page: 8/14  
(30059356/SDS\_CPA\_US/EN)

### 11. Toxicological information

#### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

#### Acute Toxicity/Effects

##### Acute toxicity

Assessment of acute toxicity: Relatively nontoxic after single ingestion. Slightly toxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

##### Oral

Type of value: LD50  
Species: rat  
Value: 5,897 mg/kg

##### Inhalation

Type of value: LC50  
Species: rat (male/female)  
Value: > 3.38 mg/l  
Exposure time: 4 h

##### Dermal

Type of value: LD50  
Species: rat  
Value: > 2,000 mg/kg

##### Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

The product has not been tested. The statement has been derived from the properties of the individual components.

##### Irritation / corrosion

Assessment of irritating effects: May cause slight irritation to the skin. May cause moderate but temporary irritation to the eyes.

##### Skin

Species: rabbit  
Method: FHSA Guideline  
May cause slight irritation to the skin.

##### Eye

Species: rabbit  
Result: non-irritant

##### Sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential.

##### Skin sensitization test

Species: guinea pig  
Skin sensitizing effects were not observed in animal studies.



# Safety Data Sheet

## MARKSMAN HERBICIDE

Revision date : 2019/04/26  
Version: 6.0

Page: 9/14  
(30059356/SDS\_CPA\_US/EN)

### Chronic Toxicity/Effects

#### Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

#### *Information on: Atrazine*

*Assessment of repeated dose toxicity: Repeated oral exposure may affect certain organs.*

#### *Information on: ethylene glycol*

*Assessment of repeated dose toxicity: The substance may cause damage to the kidney after repeated ingestion. The substance may cause damage to the kidney after repeated skin contact with high doses.*

#### *Information on: crystalline silica*

*Assessment of repeated dose toxicity: The substance may cause increase in lung mass and lung tissue changes after repeated inhalation.*

*This product may contain greater than 0.1% crystalline silica. Repeated exposure to high concentrations results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs, and repeated, non-specific chest illnesses. OSHA (Occupational Safety and Health Administration) has classified this substance as harmful to the lung, kidney and immune system following repeated inhalation exposure.*

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#### Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

#### Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

#### *Information on: Dicamba*

*Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.*

#### *Information on: atrazine*

*Assessment of carcinogenicity: The substance is not considered to pose a carcinogenic risk at low human exposure levels. In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.*

*In long-term animal studies in which the substance was given in high concentrations by feed, a carcinogenic effect was observed.*

*IARC Group 3 (not classifiable as to human carcinogenicity).*

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#### Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

#### Teratogenicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

#### *Information on: ethylene glycol*

# Safety Data Sheet

## MARKSMAN HERBICIDE

Revision date : 2019/04/26  
Version: 6.0

Page: 10/14  
(30059356/SDS\_CPA\_US/EN)

*Assessment of teratogenicity: Developmental toxicity was observed after oral ingestion of high doses in studies with rats and mice, but this effect was not seen in a study with rabbits. Mechanistic studies show that the rabbit is the relevant species for the classification for human health. As such, and since ethylene glycol is not a developmental toxicant in the rabbit, no classification is warranted. However, the relevance of this result for humans is unclear.*  
-----

### Other Information

Misuse can be harmful to health.

### **Symptoms of Exposure**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., (Further) symptoms and / or effects are not known so far

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## 12. Ecological Information

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

Acutely toxic for fish. Acutely toxic for aquatic invertebrates. Very toxic (acute effect) to aquatic plants.

#### Toxicity to fish

*Information on: Dicamba*

*LC50 (96 h) > 41 mg/l, Oncorhynchus mykiss*

*Information on: atrazine*

*LC50 (96 h) 5.3 mg/l, Oncorhynchus mykiss*

*LC50 (96 h) 42 mg/l, Lepomis macrochirus*  
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#### Aquatic invertebrates

*Information on: Dicamba*

*EC50 (48 h) > 41 mg/l, Daphnia magna*

*Information on: atrazine*

*LC50 (96 h) 1.0 mg/l, Mysidopsis bahia*

*LC50 (96 h) 5.7 mg/l, Gammarus fasciatus*

*LC50 (24 h) 87 mg/l, Daphnia magna*  
-----

#### Assessment of terrestrial toxicity

With high probability not acutely harmful to honeybees. Acutely toxic to terrestrial organisms.

#### Other terrestrial non-mammals

*Information on: Dicamba*

*LD50 216 mg/kg, Colinus virginianus*

*LD50 1,373 mg/kg, Anas platyrhynchos*

*LC50, Colinus virginianus*

*LC50, Anas platyrhynchos*

*LD50 100 ug/bee, Apis mellifera*

# Safety Data Sheet

## MARKSMAN HERBICIDE

Revision date : 2019/04/26  
Version: 6.0

Page: 11/14  
(30059356/SDS\_CPA\_US/EN)

*Information on: atrazine*  
*LD50, Colinus virginianus*  
*LD50, Apis mellifera*  
*LC50, Anas platyrhynchos*  
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### Persistence and degradability

#### Elimination information

Not readily biodegradable (by OECD criteria).

#### Elimination information

*Information on: dicamb*

*Information on: Atrazine*  
*7 - 14 % CO2 formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic, domestic sewage) Non-biodegradable.*  
-----

### Bioaccumulative potential

#### Assessment bioaccumulation potential

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Assessment bioaccumulation potential

*Information on: dicamb*

*Information on: Atrazine*  
-----

### Mobility in soil

#### Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components.

### Additional information

Other ecotoxicological advice:

The ecological data given are those of the active ingredient. Do not release untreated into natural waters.

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## 13. Disposal considerations

### **Waste disposal of substance:**

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

# Safety Data Sheet

## MARKSMAN HERBICIDE

Revision date : 2019/04/26  
Version: 6.0

Page: 12/14  
(30059356/SDS\_CPA\_US/EN)

### Container disposal:

Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

### RCRA:

This product is not regulated by RCRA.

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## 14. Transport Information

### Land transport

USDOT

Not classified as a dangerous good under transport regulations

### Sea transport

IMDG

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Marine pollutant:	YES
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains DICAMBA)

### Air transport

IATA/ICAO

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains DICAMBA)

### Further information

DOT: This product is regulated if the amount in a single receptacle exceeds the Reportable Quantity (RQ). Please refer to Section 15 of this MSDS for the RQ for this product.

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## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Crop Protection TSCA, US released / exempt

Chemical TSCA, US blocked / not listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### EPCRA 313:

<u>CAS Number</u>	<u>Chemical name</u>
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# Safety Data Sheet

## MARKSMAN HERBICIDE

Revision date : 2019/04/26  
Version: 6.0

Page: 13/14  
(30059356/SDS\_CPA\_US/EN)

107-21-1	ethylene glycol
1912-24-9	atrazine
1918-00-9	dicamba

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
5000 LBS	107-21-1	ethylene glycol
1000 LBS	1918-00-9	dicamba

### State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	1912-24-9	atrazine

### **Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:**

**WARNING:** This product can expose you to chemicals including ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### **NFPA Hazard codes:**

Health: 1      Fire: 1      Reactivity: 1      Special:

### **Labeling requirements under FIFRA**

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 workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

#### CAUTION:

KEEP OUT OF REACH OF CHILDREN.

HARMFUL IF INHALED.

HARMFUL IF SWALLOWED.

HARMFUL IF ABSORBED THROUGH SKIN.

May cause moderate but temporary irritation to the eyes.

Avoid prolonged and/or repeated contact with the skin.

Avoid inhalation of mists/vapours.

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## 16. Other Information

### **SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2019/04/26

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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# Safety Data Sheet

## MARKSMAN HERBICIDE

Revision date : 2019/04/26

Version: 6.0

Page: 14/14

(30059356/SDS\_CPA\_US/EN)

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