



**BAYER ADVANCED WEED KILLER FOR LAWNS  
CONCENTRATE**

Version 2.0 / USA  
102000012501

1/10  
Revision Date: 04/29/2015  
Print Date: 04/30/2015

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE  
COMPANY/UNDERTAKING**

**Product identifier**

**Trade name** BAYER ADVANCED WEED KILLER FOR LAWNS CONCENTRATE

**Product code (UVP)** 06533310

**SDS Number** 102000012501

**EPA Registration No.** 72155-4

**Relevant identified uses of the substance or mixture and uses advised against**

**Use** Herbicide

**Restrictions on use** See product label for restrictions.

**Information on manufacturer**

Bayer Environmental Science  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
United States

**Emergency telephone no.**

**Emergency Telephone  
Number (24hr/ 7 days)** 1-800-334-7577 (24 hours/day)

**Product Information  
Telephone Number** 1-800-331-2867

**SDS Information or Request** SDSINFO.BCS-NA@bayer.com

**SECTION 2: HAZARDS IDENTIFICATION**

**Classification in accordance with regulation HCS 29CFR §1910.1200**

Eye irritation : Category 2B

**Signal word:** Warning

**Hazard statements**

Causes eye irritation.

**Precautionary statements**

Wash thoroughly after handling.

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

If eye irritation persists: Get medical advice/ attention.

**Other hazards**

No other hazards known.



## BAYER ADVANCED WEED KILLER FOR LAWNS CONCENTRATE

Version 2.0 / USA  
102000012501

2/10  
Revision Date: 04/29/2015  
Print Date: 04/30/2015

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
2,4-D, dimethylamine salt	2008-39-1	7.59
Mecoprop-P-dimethylamine salt	66423-09-4	1.83
Dicamba, dimethylamine salt	2300-66-5	0.84

### SECTION 4: FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Eye contact</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

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

**Symptoms** To date no symptoms are known.

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

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing media

<b>Suitable</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable</b>	High volume water jet



**BAYER ADVANCED WEED KILLER FOR LAWNS  
CONCENTRATE**

Version 2.0 / USA  
102000012501

**3/10**  
Revision Date: 04/29/2015  
Print Date: 04/30/2015

<b>Special hazards arising from the substance or mixture</b>	Dangerous gases are evolved in the event of a fire.
<b>Advice for firefighters</b>	
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
<b>Further information</b>	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
<b>Flash point</b>	> 93.3 °C
<b>Autoignition temperature</b>	no data available
<b>Lower explosion limit</b>	no data available
<b>Upper explosion limit</b>	no data available
<b>Explosivity</b>	not applicable

---

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

**Methods and materials for containment and cleaning up**

**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Use personal protective equipment. Do not allow product to contact non-target plants.

**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

---

**SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.



## BAYER ADVANCED WEED KILLER FOR LAWNS CONCENTRATE

Version 2.0 / USA  
102000012501

4/10  
Revision Date: 04/29/2015  
Print Date: 04/30/2015

Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

### Conditions for safe storage, including any incompatibilities

#### Requirements for storage areas and containers

Store in original container and out of the reach of children, preferably in a locked storage area. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from freezing.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

2,4-D, dimethylamine salt	2008-39-1	20ug/m3 (ST ESL)	07 2011	TX ESL
2,4-D, dimethylamine salt	2008-39-1	2ug/m3 (AN ESL)	07 2011	TX ESL

### Exposure controls

#### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

#### Respiratory protection

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

#### Hand protection

Chemical resistant nitrile rubber gloves

#### Eye protection

Tightly fitting safety goggles

#### Skin and body protection

Wear long-sleeved shirt and long pants and shoes plus socks.

#### General protective measures

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.  
Keep and wash PPE separately from other laundry.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	light brown
Physical State	liquid, clear
Odor	characteristic
Odour Threshold	no data available
pH	7.0 - 8.5 at 100 %



**BAYER ADVANCED WEED KILLER FOR LAWNS  
CONCENTRATE**

Version 2.0 / USA  
102000012501

**5/10**  
Revision Date: 04/29/2015  
Print Date: 04/30/2015

---

<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available
<b>Density</b>	ca. 1.03 g/cm <sup>3</sup> at 20 °C
<b>Evaporation rate</b>	no data available
<b>Boiling Point</b>	no data available
<b>Melting / Freezing Point</b>	no data available
<b>Water solubility</b>	soluble
<b>Minimum Ignition Energy</b>	not applicable
<b>Decomposition temperature</b>	not applicable
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Viscosity</b>	no data available
<b>Flash point</b>	> 93.3 °C
<b>Autoignition temperature</b>	no data available
<b>Lower explosion limit</b>	no data available
<b>Upper explosion limit</b>	no data available
<b>Explosivity</b>	not applicable

---

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity**

<b>Thermal decomposition</b>	not applicable
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatible materials</b>	Acids
<b>Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

---

**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Exposure routes</b>	Skin contact, Eye contact, Inhalation, Ingestion
------------------------	--



**BAYER ADVANCED WEED KILLER FOR LAWNS  
CONCENTRATE**

Version 2.0 / USA  
102000012501

6/10  
Revision Date: 04/29/2015  
Print Date: 04/30/2015

**Immediate Effects**

**Eye** Moderate eye irritation.  
**Skin** May cause skin irritation.  
**Ingestion** Harmful if swallowed.

**Information on toxicological effects**

**Acute oral toxicity** LD50 (rat) > 2,000 mg/kg

**Acute inhalation toxicity**  
no data available

**Acute dermal toxicity** LD50 (rat) > 2,000 mg/kg

**Assessment repeated dose toxicity**

2,4-D dimethylamine salt did not cause specific target organ toxicity in experimental animal studies.  
Mecoprop-P did not cause specific target organ toxicity in experimental animal studies.  
Dicamba did not cause specific target organ toxicity in experimental animal studies.

**Assessment mutagenicity**

2,4-D dimethylamine salt was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.  
Mecoprop-P was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.  
Dicamba was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

**Assessment carcinogenicity**

2,4-D was not carcinogenic in lifetime feeding studies in rats and mice.  
Mecoprop-P caused an increased incidence of tumours in in the following organ(s): . The mechanism that triggers these tumours is not relevant to humans.  
Dicamba was not carcinogenic in lifetime feeding studies in rats and mice.

**ACGIH**

None.

**NTP**

None.

**IARC**

None.

**OSHA**

None.

**Assessment toxicity to reproduction**

2,4-D did not cause reproductive toxicity in a two-generation study in rats.  
Mecoprop-P did not cause reproductive toxicity in a two-generation study in rats.  
Dicamba did not cause reproductive toxicity in a two-generation study in rats.

**Assessment developmental toxicity**



## BAYER ADVANCED WEED KILLER FOR LAWNS CONCENTRATE

Version 2.0 / USA  
102000012501

7/10  
Revision Date: 04/29/2015  
Print Date: 04/30/2015

2,4-D dimethylamine salt caused developmental toxicity only at dose levels toxic to the dams.  
Mecoprop-P caused developmental toxicity only at dose levels toxic to the dams. Mecoprop-P caused a delayed foetal growth.  
Dicamba did not cause developmental toxicity in rats and rabbits.

### Further information

No data is available on the product itself.  
The information is derived from the properties of the individual components.  
The non-acute information pertains to the active ingredient(s).

---

## SECTION 12: ECOLOGICAL INFORMATION

<b>Biodegradability</b>	2,4-D dimethylamine salt: ; not rapidly biodegradable Mecoprop-P: ; rapidly biodegradable Dicamba: ; not rapidly biodegradable
<b>Koc</b>	2,4-D dimethylamine salt: Koc: 72 - 471 Mecoprop-P: Koc: 20 - 43 Dicamba: Koc: 5.1
<b>Bioaccumulation</b>	2,4-D dimethylamine salt: Bioconcentration factor (BCF) 0.1; Does not bioaccumulate. Mecoprop-P: Bioconcentration factor (BCF) 0.02; Does not bioaccumulate. Dicamba: ; Does not bioaccumulate.
<b>Mobility in soil</b>	2,4-D dimethylamine salt: Moderately mobile in soils Mecoprop-P: Mobile in soils Dicamba: Highly mobile in soils
<b>Environmental precautions</b>	Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not apply when weather conditions favor runoff or drift. Apply this product as specified on the label.

---

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Product** It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines.  
Never place unused product down any indoor or outdoor drain.



**BAYER ADVANCED WEED KILLER FOR LAWNS  
CONCENTRATE**

Version 2.0 / USA  
102000012501

8/10  
Revision Date: 04/29/2015  
Print Date: 04/30/2015

<b>Contaminated packaging</b>	Do not re-use empty containers. Place empty container in trash. Follow advice on product label and/or leaflet.
<b>RCRA Information</b>	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

---

**SECTION 14: TRANSPORT INFORMATION**

**49CFR**

UN number	<b>3082</b>
Class	9
Packaging group	III
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (2,4-D DIMETHYLAMINE SALT)
RQ	Reportable Quantity is reached with 1,317 lb of product.

**IMDG** Not dangerous goods / not hazardous material

**IATA** Not dangerous goods / not hazardous material

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: COMPOUNDS, TREE OR WEED KILLING, N.O.I. other than  
poison, HAVING A DENSITY OF 20 LBS OR GREATER PER  
CUBIC FOOT

---

**SECTION 15: REGULATORY INFORMATION**

**EPA Registration No.** 72155-4

**US Federal Regulations**

**TSCA list**

None.

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

None.

**SARA Title III - Section 302 - Notification and Information**

None.

**SARA Title III - Section 313 - Toxic Chemical Release Reporting**

Dicamba, dimethylamine salt	2300-66-5	1.0%
-----------------------------	-----------	------

**US States Regulatory Reporting**

**CA Prop65**

This product does not contain any substances known to the State of California to cause cancer.





**BAYER ADVANCED WEED KILLER FOR LAWNS  
CONCENTRATE**

Version 2.0 / USA  
102000012501

9/10  
Revision Date: 04/29/2015  
Print Date: 04/30/2015

This product does not contain any substances known to the State of California to cause reproductive harm.

**US State Right-To-Know Ingredients**

2,4-D, dimethylamine salt	2008-39-1	CT, IL, RI
Dicamba, dimethylamine salt	2300-66-5	NJ, RI

**Canadian Regulations**

**Canadian Domestic Substance List**

None.

**Environmental**

**CERCLA**

2,4-D, dimethylamine salt 2008-39-1

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**EPA/FIFRA Information:**

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 required on the pesticide label:

**Signal word:** Caution!

**Hazard statements:** Harmful if swallowed.  
Moderate eye irritation.  
Avoid contact with skin, eyes and clothing.

---

**SECTION 16: OTHER INFORMATION**

**NFPA 704 (National Fire Protection Association):**

Health - 1      Flammability - 1      Instability - 0      Others - none

**HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)**

Health - 1      Flammability - 1      Physical Hazard - 0      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)



**BAYER ADVANCED WEED KILLER FOR LAWNS  
CONCENTRATE**

Version 2.0 / USA  
102000012501

**10/10**  
Revision Date: 04/29/2015  
Print Date: 04/30/2015

---

**Revision Date:** 04/29/2015

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.