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

Product identifier		
Trade name	BAYER ADVANCED SOUTHERN WEED KILLER FOR LAWNS READY-TO-USE	
Product code (UVP)	05578698	
SDS Number	102000012301	
EPA Registration No.	72155-2	
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		
SDS Information or Request	SDSINFO.BCS-NA@bayer.com	

#### **SECTION 2: HAZARDS IDENTIFICATION**

Classification in accordance with regulation HCS 29CFR §1910.1200 This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200. Other hazards No particular hazards known.



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#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component NameCAS-No.Concentration % by weight2,4-D, dimethylamine salt2008-39-10.311Mecoprop-P-dimethylamine salt66423-09-40.075Dicamba, dimethylamine salt2300-66-50.034

#### **SECTION 4: FIRST AID MEASURES**

Description of 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.	
Inhalation	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.	
Skin contact	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.	
Eye contact	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.	
Ingestion	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	
Suitable	Foam, Dry chemical, Water, Carbon dioxide (CO2)
Unsuitable	None known.



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Special hazards arising from the substance or mixture	Dangerous gases are evolved in the event of a fire.
Advice for firefighters	
Special protective equipment for fire-fighters	Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
Further information	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.
Flash point	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Explosivity	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. Do not allow to enter soil, waterways or waste water canal.	
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. Ensure adequate ventilation.
Hygiene measures	Wash hands thoroughly with soap and water after handling and before



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eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Remove Personal Protective Equipment (PPE) immediately after handling this product. 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<br/>areas and containersStore in original container and out of the reach of children, preferably in<br/>a locked storage area. 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	Respiratory protection is not required under anticipated circumstances of exposure.
Hand protection	Chemical resistant nitrile rubber gloves
Eye protection	Safety glasses with side-shields
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. Do not allow children or pets to enter the treated area until it has dried.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	light red
Physical State	liquid
Odor	characteristic
Odour Threshold	no data available
рН	7.5 - 8.5 at 100 % (20 °C)



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Vapor Pressure	no data available
Vapor Density (Air = 1)	no data available
Density	ca. 1.00 g/cm³ at 20 °C
Evapouration rate	no data available
Boiling Point Melting / Freezing Point	100 °C / 212 °F ca. 0 °C / 32 °F
Water solubility	soluble
Minimum Ignition Energy	not applicable
Decomposition temperature	not applicable
Partition coefficient: n- octanol/water	not applicable
Viscosity	
	no data available
Flash point	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Explosivity	not applicable

#### SECTION 10: STABILITY AND REACTIVITY

Reactivity	
Thermal decomposition	not applicable
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	freezing
Incompatible materials	no data available
Hazardous decomposition products	No decomposition products expected under normal conditions of use.



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Exposure routes	Inhalation, Skin contact, Eye contact, Ingestion	
Immediate Effects Eye	Moderate eye irritation.	
Skin	Harmful if absorbed through skin.	
Ingestion	Harmful if swallowed.	
Information on toxicological effects		
Acute oral toxicity	LD50 (rat) > 5,000 mg/kg	

Acute of al toxicity	ED00 (100) > 0,000 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.



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#### Assessment developmental toxicity

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**

Biodegradability	2,4-D dimethylamine salt: not rapidly biodegradable Mecoprop-P: rapidly biodegradable Dicamba: not rapidly biodegradable
Кос	2,4-D dimethylamine salt: Koc: 72 - 471 Mecoprop-P: Koc: 20 - 43 Dicamba: Koc: 5.1
Bioaccumulation	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.
Mobility in soil	2,4-D dimethylamine salt: Moderately mobile in soils Mecoprop-P: Mobile in soils Dicamba: Highly mobile in soils
Environmental precautions	Do not allow to get into surface water, drains and ground water. Drift or runoff from treated areas may adversely affect non-target plants. 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.



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Contaminated packaging	Do not re-use empty containers. Place empty container in trash. Follow advice on product label and/or leaflet.
RCRA Information	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**

<b>49CFR</b> UN number Class Packaging group Proper shipping name	<b>3082</b> 9 III ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (2.4.D.DIMETHIXI AMINE SALT)
RQ	(2,4-D DIMETHYLAMINE SALT) Reportable Quantity is reached with 32,154 lb of product.
IMDG	Not dangerous goods / not hazardous material
ΙΑΤΑ	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 WEEDKILLING, N.O.I., other than
	poison; HAVING A DENSITY OF GREATER THAN 20 LBS.
	PER CUBIC FOOT

#### **SECTION 15: REGULATORY INFORMATION**

**EPA Registration No.** 72155-2 **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.



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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 or absorbed through skin. Avoid contact with skin, eyes and clothing. Moderate eye irritation.

#### **SECTION 16: OTHER INFORMATION**

#### Abbreviations and acronyms

Appreviations and a	Sionymo
49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
CAS-Nr.	Chemical Abstracts Service number
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	US. IARC Monographs on Occupational Exposures to Chemical Agents
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods



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TWA	Time weighted av	erage	
UN	United Nations		
WHO	World health orga	nisation	
	I Fire Protection Asso Flammability - 1		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)

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