

BAYER ADVANCED DURAZONE™ CONCENTRATE WEED & GRASS KILLER

MSDS Number: 102000025082 MSDS Version 1.0 Revision Date: 04/26/2011 Print Date: 04/26/2011

### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name	BAYER ADVANC
MSDS Number	102000025082
EPA Registration No.	72155-100
Product Use	Herbicide

BAYER ADVANCED DURAZONE™ CONCENTRATE WEED & GRASS KILLER 102000025082 72155-100 Herbicide

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

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day) For Product Information call: 1-800-331-2867

### **SECTION 2. HAZARDS IDENTIFICATION**

NOTE: Please refer to Section Emergency Overview	on 11 for detailed toxicological information. Caution! Harmful if swallowed or absorbed through skin. Moderate eye irritation. Avoid contact with skin, eyes and clothing.
Physical State	liquid
Odor	characteristic
Appearance	off-white to pink
Exposure routes	Ingestion, Skin Absorption, Eye contact
Immediate Effects Eye	Moderate eye irritation. Avoid contact with eyes.
Skin	May cause skin irritation. Harmful if absorbed through skin. Avoid contact with skin and clothing.
Ingestion	Harmful if swallowed. Do not take internally.
Chronic or Delayed Long-Term	This product or its components may have target organ effects.
Potential Environmental Effect	Toxic to fish and aquatic invertebrates. This product may cause adverse effects on non-target plants.



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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Average % by Weight
Indaziflam	950782-86-2	0.089
Diquat dibromide	85-00-7	0.89
Glyphosate, isopropylamine salt	38641-94-0	20.46
Synthetic amorphous silica	112926-00-8	1.00

# SECTION 4. FIRST AID MEASURES

General	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Еуе	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.
Skin	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.
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.
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.
Notes to physician Treatment	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

### **SECTION 5. FIRE FIGHTING MEASURES**

Flash point	> 93.4 °C / 200.1 °F
Autoignition temperature	no data available
Lower Flammability Limit	no data available

Upper Flammability Limit no data available



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Suitable extinguishing media	Water spray, Foam, Carbon dioxide (CO2), Dry chemical
Fire Fighting Instructions	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. Whenever possible, contain fire-fighting water by diking area with sand or earth.
	Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautionsKeep unauthorized people away. Isolate hazard area. Avoid contact with spilled<br/>product or contaminated surfaces.Methods for cleaning upSoak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal<br/>binder, sawdust). Collect and transfer the product into a properly labelled and<br/>tightly closed container. Clean contaminated floors and objects thoroughly,<br/>observing environmental regulations.Additional adviceUse personal protective equipment. Do not allow to enter soil, waterways or<br/>waste water canal. Do not allow product to contact vegetation.

# SECTION 7. HANDLING AND STORAGE Handling procedures Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Storing Procedures Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked

Work/Hygienic	Remove soiled clothing immediately and clean thoroughly before using again.
Procedures	Wash thoroughly and put on clean clothing.

storage area. Protect from freezing.

### **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**General Protection** There are no known hazards associated with this product when used according to the label directions. The following guidelines should be followed.

Avoid inhalation of vapour or mist. Avoid contact with skin and eyes.



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

Do not allow children or pets to enter the treated area until it has dried.

### **Exposure Limits**

Indaziflam Diquat dibromide	950782-86-2 85-00-7	OES BCS* NIOSH US CA OEL TX ESL TX ESL TN OEL	TWA REL TWA PEL ST ESL AN ESL TWA	0.14 mg/m3 0.5 mg/m3 0.5 mg/m3 1 ug/m3 0.1 ug/m3 0.5 mg/m3
Glyphosate, isopropylamine salt	38641-94-0	TX ESL TX ESL	ST ESL AN ESL	50 ug/m3
Synthetic amorphous silica	112926-00-8	OSHA Z1A	TWA	5 ug/m3 6 mg/m3
		TX ESL TX ESL	ST ESL AN ESL TWA	40 ug/m3 4 ug/m3 6 mg/m3

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

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

Appearance	off-white to pink
Physical State	liquid
Odor	characteristic
рН	4.0 - 6.0 (100 %)
Vapor Pressure	no data available
Vapor Density (Air = 1)	no data available
Density	1.10 g/cm3 at 20 °C
Evaporation rate	no data available
Boiling Point	no data available
Melting / Freezing Point	no data available



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Water solubility	soluble
Minimum Ignition Energy	no data available
Decomposition temperature	no data available
Partition coefficient: n- octanol/water	no data available
Viscosity	300 - 800 cps

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	freezing
Incompatibility	no data available
Hazardous Decomposition Products	Thermal decomposition can lead to release of: Carbon oxides nitrogen oxides (NOx) Oxides of phosphorus
Hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Chemical Stability	Stable under normal conditions.

### SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been performed on the formulated product.

Acute oral toxicity	rat: LD50: > 5,000 mg/kg
Acute dermal toxicity	rabbit: LD50: > 2,000 mg/kg
Acute inhalation toxicity	rat: LC50: > 2.04 mg/l Exposure time: 4 h Determined in the form of liquid aerosol.
	rat: LC50: > 8.16 mg/l Exposure time: 1 h Determined in the form of liquid aerosol. Extrapolated from the 4 hr LC50.
Skin irritation	rabbit: Moderate skin irritation.

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Eye irritation	rabbit: Mild eye irritation.
Sensitisation	guinea pig: Non-sensitizing.
Chronic toxicity	Diquat dibromide: may cause effects to skin, lungs, liver and kidneys.
	Glyphosate, isopropylamine salt: may decrease body weight gains and effects to liver.
ACGIH None.	
NTP None.	
IARC	
OSHA	
None.	

### SECTION 12. ECOLOGICAL INFORMATION

Environmental precautions	Do not allow to get into surface water, drains and ground water. 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. 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**

General Disposal Guidance	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.
Container Disposal	Do not re-use empty containers. Place empty container in trash.
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**

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.



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SECTION 15. REGULATORY INFO	ORMATION				
EPA Registration No. 7215	55-100				
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					
None. US States Regulatory Reporting					
CA Prop65 This product does not contain any substances known to the State of California to cause cancer.					
This product does not contain any substances known to the State of California to cause reproductive harm.					
US State Right-To-Know Ingr Diquat dibromide	redients 85-00-7 CA, RI				
Canadian Regulations Canadian Domestic Substan	ce List				
Diquat dibromide Glyphosate, isopropylamine Synthetic amorphous silica	85-00-7 salt 38641-94-0 112926-00-8				
Environmental CERCLA Diguat dibromide	85-00-7	1,000 lbs			
Clean Water Section 307 Priority Pollutants None.					
Safe Drinking Water Act Maximum Contaminant Levels None.					
International Regulations European Inventory of Existing Commercial Substances (EINECS)					
Diquat dibromide Glyphosate, isopropylamine	85-00-7 salt 38641-94-0				



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### SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):<br/>Health - 2Sectivity - 1Others - noneHMIS (Hazardous Materials Identification System, based on the ThirdEdition Ratings Guide)<br/>Physical Hazard - 1PPE -

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

Reason for Revision: New Material Safety Data Sheet.

Revision Date: 04/26/2011

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