

# SAFETY DATA SHEET



## DURANGO™ DMA

Version 1.0      Revision Date: 01/21/2022      SDS Number: 800080005374      Date of last issue: -  
Date of first issue: 01/21/2022

---

Corteva Agriscience™ encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

---

### SECTION 1. IDENTIFICATION

Product name : DURANGO™ DMA

#### Manufacturer or supplier's details

#### COMPANY IDENTIFICATION

Manufacturer/importer : CORTEVA AGRISCIENCE LLC  
9330 ZIONSVILLE RD  
INDIANAPOLIS, IN, 46268-1053  
UNITED STATES

Customer Information Number : 800-992-5994

E-mail address : customerinformation@corteva.com

Emergency telephone : INFOTRAC (CONTRACT 84224).  
800-992-5994 or 317-337-6009

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

Recommended use : End use herbicide product

---

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Eye irritation : Category 2B

Skin sensitization : Sub-category 1B

#### GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.  
H320 Causes eye irritation.

™ ® Trademarks of Corteva Agriscience and its affiliated companies.

## DURANGO™ DMA

Version 1.0      Revision Date: 01/21/2022      SDS Number: 800080005374      Date of last issue: -  
Date of first issue: 01/21/2022

Precautionary Statements : **Prevention:**  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
 P264 Wash skin thoroughly after handling.  
 P272 Contaminated work clothing must not be allowed out of the workplace.  
 P280 Wear protective gloves.

**Response:**  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P363 Wash contaminated clothing before reuse.

**Disposal:**  
 P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Glyphosate DMA Salt	34494-04-7	50.2
Amines, tallow alkyl, ethoxylated	61791-26-2	>= 3 - < 10
Betaines, C12-14 (even numbered)-alkyldimethyl	Not Assigned	>= 1 - < 3
Balance	Not Assigned	> 30

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

If inhaled : Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.

In case of skin contact : Take off contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.  
 Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of properly.

# SAFETY DATA SHEET



## DURANGO™ DMA

Version 1.0      Revision Date: 01/21/2022      SDS Number: 800080005374      Date of last issue: -  
Date of first issue: 01/21/2022

---

- In case of eye contact : Suitable emergency safety shower facility should be available in work area.  
: Hold eyes 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 eyes. Call a poison control center or doctor for treatment advice.  
: Suitable emergency eye wash facility should be available in work area.
- If swallowed : No emergency medical treatment necessary.
- Most important symptoms and effects, both acute and delayed : None known.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection).  
: If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : No specific antidote.  
: Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.  
: Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.
- 

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray  
: Alcohol-resistant foam
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health.  
: Do not allow run-off from firefighting to enter drains or water courses.
- Hazardous combustion products : During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.
- Combustion products may include and are not limited to:  
Oxides of phosphorus  
Nitrogen oxides (NOx)  
Carbon oxides
- Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.  
: Evacuate area.  
: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
: Use water spray to cool unopened containers.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

## DURANGO™ DMA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01/21/2022	800080005374	Date of first issue: 01/21/2022

for fire-fighters

Use personal protective equipment.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities. Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. Prevent from entering into soil, ditches, sewers, underwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up : Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-pressurization of the container. Keep in suitable, closed containers for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). See Section 13, Disposal Considerations, for additional information.

**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Do not breathe vapors/dust. Do not smoke. Handle in accordance with good industrial hygiene and safety practice. Avoid exposure - obtain special instructions before use. Smoking, eating and drinking should be prohibited in the application area. Do not get on skin or clothing.

# SAFETY DATA SHEET



## DURANGO™ DMA

Version 1.0      Revision Date: 01/21/2022      SDS Number: 800080005374      Date of last issue: -  
Date of first issue: 01/21/2022

---

- Avoid inhalation of vapor or mist.  
Do not swallow.  
Do not get in eyes.  
Avoid contact with skin and eyes.  
Take care to prevent spills, waste and minimize release to the environment.  
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
- Conditions for safe storage : Store in a closed container.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Keep in properly labeled containers.  
Store in accordance with the particular national regulations.
- Materials to avoid : Do not store near acids.  
Strong oxidizing agents
- Packaging material : Unsuitable material: None known.
- 

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

- Engineering measures** : Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.  
Local exhaust ventilation may be necessary for some operations.

#### Personal protective equipment

- Respiratory protection : Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.
- Hand protection

- Remarks : Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), poten-

# SAFETY DATA SHEET



## DURANGO™ DMA

Version 1.0      Revision Date: 01/21/2022      SDS Number: 800080005374      Date of last issue: -  
Date of first issue: 01/21/2022

---

Eye protection : tial body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.  
Skin and body protection : Use chemical goggles.  
: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

---

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid.

Color : Yellow

Odor : Amine.

Odor Threshold : No data available

pH : 4.59  
Method: pH Electrode

Melting point/range : Not applicable

Freezing point : No data available

Boiling point/boiling range : No data available

Flash point : > 212 °F / > 100 °C  
Method: Setaflash Closed Cup ASTM D3828, closed cup

Flammability (solid, gas) : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Density : 1.2114 g/cm<sup>3</sup>

Solubility(ies)  
Water solubility : Soluble

Autoignition temperature : No data available

Viscosity  
Viscosity, dynamic : 62.3 mPa.s (68 °F / 20 °C)  
32.5 mPa.s (104 °F / 40 °C)

# SAFETY DATA SHEET



## DURANGO™ DMA

Version 1.0      Revision Date: 01/21/2022      SDS Number: 800080005374      Date of last issue: -  
Date of first issue: 01/21/2022

---

Explosive properties : No

Oxidizing properties : No significant increase (>5C) in temperature.

---

### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : No decomposition if stored and applied as directed.  
Stable under normal conditions.

Possibility of hazardous reactions : Stable under recommended storage conditions.  
No hazards to be specially mentioned.  
None known.

Conditions to avoid : None known.

Incompatible materials : None.

Hazardous decomposition products : Decomposition products depend upon temperature, air supply and the presence of other materials.  
Decomposition products can include and are not limited to:  
Oxides of phosphorus  
Nitrogen oxides (NOx)  
Carbon oxides

---

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg  
GLP: yes  
Remarks: For similar material(s)

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.63 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Symptoms: No deaths occurred at this concentration.  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: For similar material(s)

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
GLP: yes  
Remarks: For similar material(s)

##### Components:

##### **Glyphosate DMA Salt:**

Acute oral toxicity : LD50 (Rat): > 4,000 mg/kg  
Remarks: For similar active ingredient(s).

Acute inhalation toxicity : Remarks: Prolonged excessive exposure to dust may cause

# SAFETY DATA SHEET



## DURANGO™ DMA

Version 1.0      Revision Date: 01/21/2022      SDS Number: 800080005374      Date of last issue: -  
Date of first issue: 01/21/2022

---

adverse effects.

LC50 (Rat): > 1.9 mg/l  
Test atmosphere: dust/mist  
Remarks: For similar active ingredient(s).

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Remarks: For similar active ingredient(s).

### **Amines, tallow alkyl, ethoxylated:**

Acute oral toxicity : LD50 (Rat): 500 - 2,000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### **Betaines, C12-14 (even numbered)-alkyldimethyl:**

Acute oral toxicity : LD50 (Rat): 2,640 mg/kg  
Method: OECD Test Guideline 401

### **Skin corrosion/irritation**

#### **Product:**

Species : Rabbit  
Result : No skin irritation

#### **Components:**

##### **Amines, tallow alkyl, ethoxylated:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

##### **Betaines, C12-14 (even numbered)-alkyldimethyl:**

Species : Rabbit  
Result : Causes burns.

### **Serious eye damage/eye irritation**

#### **Product:**

Species : Rabbit  
Result : Mild eye irritation

#### **Components:**

##### **Amines, tallow alkyl, ethoxylated:**

Species : Rabbit  
Result : Corrosive



# SAFETY DATA SHEET



## DURANGO™ DMA

Version 1.0      Revision Date: 01/21/2022      SDS Number: 800080005374      Date of last issue: -  
Date of first issue: 01/21/2022

---

### **Betaines, C12-14 (even numbered)-alkyldimethyl:**

Species : Rabbit  
Result : Corrosive

### **Respiratory or skin sensitization**

#### **Product:**

Species : Mouse  
Result : The product is a skin sensitizer, sub-category 1B.  
Remarks : For similar material(s):

#### **Components:**

### **Betaines, C12-14 (even numbered)-alkyldimethyl:**

Species : Guinea pig  
Assessment : Does not cause skin sensitization.

### **Germ cell mutagenicity**

#### **Components:**

### **Glyphosate DMA Salt:**

Germ cell mutagenicity - Assessment : For similar active ingredient(s), Glyphosate., In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

### **Betaines, C12-14 (even numbered)-alkyldimethyl:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative.

### **Carcinogenicity**

#### **Components:**

### **Glyphosate DMA Salt:**

Carcinogenicity - Assessment : For similar active ingredient(s), Glyphosate., Did not cause cancer in laboratory animals., Weight of evidence evaluation of epidemiology studies supports no association between glyphosate exposure and cancer.

**IARC**      No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**      No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**      No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

# SAFETY DATA SHEET



## DURANGO™ DMA

Version 1.0      Revision Date: 01/21/2022      SDS Number: 800080005374      Date of last issue: -  
Date of first issue: 01/21/2022

---

### Reproductive toxicity

#### Components:

##### **Glyphosate DMA Salt:**

Reproductive toxicity - Assessment : For similar active ingredient(s), Glyphosate., In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.  
For similar active ingredient(s), Glyphosate., Has been toxic to the fetus in laboratory animals at doses toxic to the mother., Did not cause birth defects in laboratory animals.

##### **Betaines, C12-14 (even numbered)-alkyldimethyl:**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction., In animal studies, did not interfere with fertility.  
Did not cause birth defects or any other fetal effects in laboratory animals.

### STOT-single exposure

#### Product:

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### Components:

##### **Glyphosate DMA Salt:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

##### **Amines, tallow alkyl, ethoxylated:**

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

##### **Betaines, C12-14 (even numbered)-alkyldimethyl:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

### Repeated dose toxicity

#### Components:

##### **Glyphosate DMA Salt:**

Remarks : For similar active ingredient(s).  
Glyphosate.  
Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

## DURANGO™ DMA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01/21/2022	800080005374	Date of first issue: 01/21/2022

**Aspiration toxicity****Product:**

Based on physical properties, not likely to be an aspiration hazard.

**Components:****Glyphosate DMA Salt:**

Based on physical properties, not likely to be an aspiration hazard.

**Amines, tallow alkyl, ethoxylated:**

Based on physical properties, not likely to be an aspiration hazard.

**Betaines, C12-14 (even numbered)-alkyldimethyl:**

Based on available information, aspiration hazard could not be determined.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

- |   |   |  |
|---|---|--|
| Toxicity to fish                                    | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 11 mg/l<br>Exposure time: 96 h<br>Test Type: static test<br>Method: OECD Test Guideline 203 or Equivalent<br>Remarks: For similar material(s):   |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 17 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Analytical monitoring: yes<br>Method: OECD Test Guideline 202 or Equivalent   |
| Toxicity to algae/aquatic plants                    | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): 2.1 mg/l<br>End point: Growth rate inhibition<br>Exposure time: 72 h<br>Test Type: static test<br>Method: OECD Test Guideline 201 or Equivalent   |
| Toxicity to soil dwelling organisms                 | : | LC50 (Eisenia fetida (earthworms)): > 996.6 mg/kg<br>Exposure time: 14 d<br>End point: survival<br>Remarks: Based on information for a similar material:   |
| Toxicity to terrestrial organisms                   | : | oral LD50 (Coturnix japonica (Japanese quail)): > 2250 mg/kg bodyweight.<br>Remarks: Based on information for a similar material:<br><br>oral LD50 (Apis mellifera (bees)): > 250 µg/bee<br>Exposure time: 48 h<br>Remarks: Based on information for a similar material: |

## DURANGO™ DMA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01/21/2022	800080005374	Date of first issue: 01/21/2022

---

contact LD50 (*Apis mellifera* (bees)): > 250 µg/bee  
 Exposure time: 48 h  
 Remarks: Based on information for a similar material:

**Components:****Glyphosate DMA Salt:**

Toxicity to fish : Remarks: For similar active ingredient(s).  
 Glyphosate.  
 Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested).

LC50 (*Oncorhynchus mykiss* (rainbow trout)): 38 mg/l  
 Exposure time: 96 h  
 Remarks: For similar material(s):

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna*): 40 mg/l  
 Exposure time: 48 h  
 Remarks: For similar active ingredient(s).

Toxicity to algae/aquatic plants : ErC50 (*Lemna gibba*): 12 mg/l  
 End point: Growth rate inhibition  
 Exposure time: 14 d  
 Remarks: For similar material(s):

ErC50 (*Pseudokirchneriella subcapitata* (green algae)): 19 mg/l  
 End point: Growth rate inhibition  
 Exposure time: 72 h  
 Remarks: For similar material(s):

ErC50 (*Skeletonema costatum* (marine diatom)): 18 mg/l  
 Exposure time: 72 h  
 Remarks: For similar material(s):

Toxicity to terrestrial organisms : Remarks: Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg)., Material is slightly toxic to birds on a dietary basis (LC50 between 1001 and 5000 ppm).

**Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

**Amines, tallow alkyl, ethoxylated:**

Toxicity to fish : LC50 (*Leuciscus idus* (Golden orfe)): > 1 - 10 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 1 - 10 mg/l  
 Exposure time: 48 h  
 Method: OECD Test Guideline 202

**DURANGO™ DMA**

Version 1.0      Revision Date: 01/21/2022      SDS Number: 800080005374      Date of last issue: -  
Date of first issue: 01/21/2022

---

**Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.  
Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

**Betaines, C12-14 (even numbered)-alkyldimethyl:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 4.44 mg/l  
Exposure time: 96 h  
Test Type: Static  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 7.76 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 1.7 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.38 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 2.99 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Method: OECD Test Guideline 211

**Persistence and degradability****Components:****Glyphosate DMA Salt:**

Biodegradability : Result: Not readily biodegradable.  
Remarks: For similar active ingredient(s).  
Glyphosate.  
Biodegradation may occur under aerobic conditions (in the presence of oxygen).  
Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

**Amines, tallow alkyl, ethoxylated:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: > 70 %  
Exposure time: 28 d  
Method: OECD Test Guideline 302B or Equivalent

## DURANGO™ DMA

Version 1.0      Revision Date: 01/21/2022      SDS Number: 800080005374      Date of last issue: -  
Date of first issue: 01/21/2022

---

**Betaines, C12-14 (even numbered)-alkyldimethyl:**

Biodegradability : Inoculum: activated sludge  
Concentration: 78.3 mg/l  
Result: Readily biodegradable.  
Biodegradation: 63 - 79 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

**Bioaccumulative potential****Components:****Glyphosate DMA Salt:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): < 1  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Remarks: For similar active ingredient(s).  
Glyphosate.  
Bioconcentration potential is low (BCF < 100 or Log Pow < 3).  
Potential for mobility in soil is slight (Koc between 2000 and 5000).

Remarks: For similar active ingredient(s).  
Glyphosate.  
Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Amines, tallow alkyl, ethoxylated:**

Partition coefficient: n-octanol/water : Remarks: No data available for this product.

log Pow: 5.89  
Method: estimated  
Remarks: Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).

**Betaines, C12-14 (even numbered)-alkyldimethyl:**

Partition coefficient: n-octanol/water : Remarks: No relevant data found.

**Balance:**

Partition coefficient: n-octanol/water : Remarks: No relevant data found.

**Mobility in soil****Components:****Glyphosate DMA Salt:**

Distribution among environmental compartments : Remarks: For similar active ingredient(s).  
Glyphosate.  
Expected to be relatively immobile in soil (Koc > 5000).

## DURANGO™ DMA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01/21/2022	800080005374	Date of first issue: 01/21/2022

---

**Balance:**

Distribution among environmental compartments : Remarks: No relevant data found.

**Other adverse effects****Components:****Glyphosate DMA Salt:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Amines, tallow alkyl, ethoxylated:**

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Betaines, C12-14 (even numbered)-alkyldimethyl:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Balance:**

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

---

**SECTION 13. DISPOSAL CONSIDERATIONS**
**Disposal methods**

Waste from residues : If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

## DURANGO™ DMA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01/21/2022	800080005374	Date of first issue: 01/21/2022

If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

## SECTION 14. TRANSPORT INFORMATION

## International Regulations

## UNRTDG

UN number : UN 3082  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Glyphosate DMA Salt)  
 Class : 9  
 Packing group : III  
 Labels : 9

## IATA-DGR

UN/ID No. : UN 3082  
 Proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (Glyphosate DMA Salt)  
 Class : 9  
 Packing group : III  
 Labels : Miscellaneous  
 Packing instruction (cargo aircraft) : 964  
 Packing instruction (passenger aircraft) : 964

## IMDG-Code

UN number : UN 3082  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Glyphosate DMA Salt)  
 Class : 9  
 Packing group : III  
 Labels : 9  
 EmS Code : F-A, S-F  
 Marine pollutant : yes  
 Remarks : Stowage category A

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## Domestic regulation

## 49 CFR

Not regulated as a dangerous good

## Further information

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.



# SAFETY DATA SHEET



## DURANGO™ DMA

Version 1.0      Revision Date: 01/21/2022      SDS Number: 800080005374      Date of last issue: -  
Date of first issue: 01/21/2022

---

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

---

## SECTION 15. REGULATORY INFORMATION

**SARA 311/312 Hazards** : Respiratory or skin sensitization  
Serious eye damage or eye irritation

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### US State Regulations

#### Pennsylvania Right To Know

formaldehyde	50-00-0
1,4-dioxane	123-91-1

#### California Prop. 65

WARNING: This product can expose you to chemicals including formaldehyde, 1,4-dioxane, Silica, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### The ingredients of this product are reported in the following inventories:

TSCA : Product contains substance(s) not listed on TSCA inventory.

#### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

#### Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number : 62719-556

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:

#### CAUTION

Causes moderate eye irritation.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

DURANGO<sup>™</sup> DMA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01/21/2022	800080005374	Date of first issue: 01/21/2022

---

**SECTION 16. OTHER INFORMATION**

## Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

**Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); EC<sub>x</sub> - Concentration associated with x% response; EHS - Extremely Hazardous Substance; EL<sub>x</sub> - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErC<sub>x</sub> - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC<sub>50</sub> - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC<sub>50</sub> - Lethal Concentration to 50 % of a test population; LD<sub>50</sub> - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 01/21/2022

Product code: GF-3434

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 a 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.

US / EN