

# MATERIAL SAFETY DATA SHEET

Syngenta Crop Protection, LLC Post Office Box 18300 Greensboro, NC 27419

In Case of Emergency, Call 1-800-888-8372

#### 1. PRODUCT IDENTIFICATION

Product Name:

**BARRICADE 4FL HERBICIDE** 

Product No.: A12333D

EPA Signal Word:

Caution

Active Ingredient(%):

Prodiamine (40.7%)

CAS No.:

29091-21-2

Chemical Name:

Chemical Class:

N3, N3-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylenediamine

EPA Registration Number(s): 100-1139

Dinitroaniline Herbicide

Section(s) Revised: 9

# 2. HAZARDS IDENTIFICATION

#### Health and Environmental

Harmful if inhaled. May cause an allergic skin reaction. Causes mild eye and skin irritation.

#### **Hazardous Decomposition Products**

None known.

#### **Physical Properties**

Appearance:

Yellow liquid

Odor:

Weak odor of ammonia

#### Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Attapulgite Clay	Not Established	Not Established	Not Established	IARC 2B
Propylene Glycol	Not Established	Not Established	10 mg/m³ TWA ****	No
Prodiamine (40.7%)	Not Established	Not Established	10 mg/m³ TWA ***	No

<sup>\*\*\*</sup> Syngenta Occupational Exposure Limit (OEL)

\*\*\*\* Recommended by AIHA (American Industrial

Hygiene Association)

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications. Syngenta Hazard Category: C, S

#### 4. FIRST AID MEASURES

Have the product container, label or Material Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison contol center or doctor, or going for treatment.

Ingestion:

If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment

Product Name: **BARRICADE 4FL HERBICIDE** 

Page: 1

# FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for

exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact: Where eye contact is likely, use chemical splash goggles.

Skin Contact: Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber,

neoprene rubber, natural rubber, polyethylene, polyvinyl chloride [PVC] or Viton), coveralls, socks and

chemical-resistant footwear.

Inhalation: A respirator is not normally required when handling this substance. Use effective engineering controls to

comply with occupational exposure limits.

In case of emergency spills, use a NIOSH certified respirator with any N, R, P or HE filter.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Yellow liquid

Odor:

Weak odor of ammonia

Melting Point:

Not Applicable

**Boiling Point:** 

Not Available

Specific Gravity/Density:

1.17 g/cm<sup>3</sup> @ 68°F; 9.76 lb/gal @ 68°F

pH:

8 - 10 (1% suspension in water)

Solubility in H2O

Prodiamine:

0.013 ppm @ 77°F (25°C)

Vapor Pressure

Prodiamine:

<5.6 x 10(-6) mmHg @ 68°F (20°C)

# 10. STABILITY AND REACTIVITY

Stability:

Stable under normal use and storage conditions.

Hazardous Polymerization:

Will not occur.

Conditions to Avoid:

Thermal, mechanical and electrical ignition sources.

Materials to Avoid:

Oxidizing agents.

Hazardous Decomposition Products:

None known.

#### 11. TOXICOLOGICAL INFORMATION

#### Acute Toxicity/Irritation Studies (Finished Product)

Ingestion:

Oral (LD50 Rat):

> 5000 mg/kg body weight

Dermal:

Dermal (LD50 Rat):

> 5000 mg/kg body weight

Inhalation:

Inhalation (LC50 Rat):

> 2.55 mg/l air - 4 hours

Eye Contact:

Minimally Irritating (Rabbit)

Skin Contact:

Slightly Irritating (Rabbit)

Skin Sensitization:

Sensitizing (Guinea Pig)

#### Reproductive/Developmental Effects

Prodiamine: Fetal toxicity at high dose levels (rats); developmental and maternal toxicity observed at 1g/kg/day.

#### Chronic/Subchronic Toxicity Studies

Prodiamine: Liver (alteration and enlargement) and thyroid effects (hormone imbalances) at high dose levels (rats); decreased body weight gains.

Product Name: BARRICADE 4FL HERBICIDE

Page: 3

#### Comments

Water Transport - International

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Prodiamine), Marine Pollutant

Hazard Class: Class 9

Identification Number: UN 3082

Packing Group: PG III

Air Transport

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Prodiamine)

Hazard Class: Class 9

Identification Number: UN 3082

Packing Group: PG III

# 15. REGULATORY INFORMATION

#### **EPCRA SARA Title III Classification**

Section 311/312 Hazard Classes: Acute Health Hazard

Chronic Health Hazard

Section 313 Toxic Chemicals:

Not Applicable

#### California Proposition 65

No Proposition 65 warning is required.

#### CERCLA/SARA 304 Reportable Quantity (RQ)

None

#### RCRA Hazardous Waste Classification (40 CFR 261)

Not Applicable

#### TSCA Status

Exempt from TSCA, subject to FIFRA

# 16. OTHER INFORMATION

NFPA Hazard Ratings		<b>HMIS Hazard Ratings</b>		0	Minimal
Health:	2	Health:	2	1	Slight
Flammability:	1	Flammability:	. 1	2	Moderate
Instability:	0	Reactivity:	0	3	Serious
		•		4	Extreme

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date:

10/1/2001

Revision Date:

2/21/2012

Replaces:

8/23/2010

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

End of MSDS

Product Name: BARRICADE 4FL HERBICIDE