# SIGMA-ALDRICH

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# SAFETY DATA SHEET

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1. PRODUCT AND COMPANY IDENTIFICATION				
Product name	:	Dicamba		
Product Number Brand Product Use	:	D5417 Sigma For laboratory research purposes.		
Supplier	:	Sigma-Aldrich Canada Co. 2149 Winston Park Drive OAKVILLE ON L6H 6J8 CANADA	Manufactur <sup>:</sup> er	Sigma-Aldrich Corporation 3050 Spruce St. St. Louis, Missouri 63103 USA
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Emergency Phone # (For both supplier and manufacturer)	:	+1-703-527-3887 (CHEMTREC)		
Preparation Information	:	Sigma-Aldrich Corporation Product Safety - Americas Region 1-800-521-8956		

## 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

## WHMIS Classification

D2B Toxic Material Causing Other Toxic Effects

Moderate eye irritant

## **GHS Classification**

Acute toxicity, Oral (Category 4) Acute toxicity, Dermal (Category 5) Serious eye damage (Category 1) Acute aquatic toxicity (Category 3) Chronic aquatic toxicity (Category 3)

## GHS Label elements, including precautionary statements

Pictogram



Signal word	Danger
Hazard statement(s)	
H302	Harmful if swallowed.
H313	May be harmful in contact with skin.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statement(s)	
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
HMIS Classification	
Health hazard:	2
Flammability:	0

Physical hazards:

0

Potential Health Effects	
Inhalation Skin Eyes Ingestion	May be harmful if inhaled. Causes respiratory tract irritation. Harmful if absorbed through skin. Causes skin irritation. Causes eye irritation. Harmful if swallowed.
U	

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms	: 3,6-Dichloro-2-methoxy 3,6-Dichloro- <i>o</i> -anisic ac		
Formula Molecular Weight	: C <sub>8</sub> H <sub>6</sub> Cl <sub>2</sub> O <sub>3</sub> : 221.04 g/mol		
CAS-No.	EC-No.	Index-No.	Concentration

3,6-Dichloro-2-methoxybenzoic acid				
	<=100%	607-043-00-X	217-635-6	1918-00-9
ó	<=100%	607-043-00-X		

## **4. FIRST AID MEASURES**

## General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

## If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

## In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

## If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## **5. FIREFIGHTING MEASURES**

#### **Conditions of flammability** Not flammable or combustible.

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

## Hazardous combustion products

Explosion data - sensitivity to mechanical impact no data available

# Explosion data - sensitivity to static discharge

no data available

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

## **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

#### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2 - 8 °C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Personal protective equipment

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

## Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

	Form	solid
	Colour	no data available
Sa	fety data	
	рН	no data available
	Melting point/freezing point	Melting point/range: 112 - 116 °C (234 - 241 °F) - lit.
	Boiling point	no data available
	Flash point	no data available
	Ignition temperature	no data available
	Auto-ignition temperature	no data available
	Lower explosion limit	no data available
	Upper explosion limit	no data available

Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evapouration rate	no data available

## **10. STABILITY AND REACTIVITY**

#### Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions no data available

Conditions to avoid no data available

Materials to avoid Strong oxidizing agents

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas Other decomposition products - no data available

## **11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

**Oral LD50** LD50 Oral - rat - 1,039 mg/kg

Inhalation LC50 no data available

## Dermal LD50

LD50 Dermal - rabbit - > 2,000 mg/kg

Other information on acute toxicity no data available

## Skin corrosion/irritation

no data available

Serious eye damage/eye irritation no data available

**Respiratory or skin sensitisation** no data available

#### Germ cell mutagenicity

Genotoxicity in vitro - Histidine reversion (Ames)

Genotoxicity in vitro - rat - lymphocyte Unscheduled DNA synthesis

Genotoxicity in vivo - rat - Intraperitoneal DNA damage

Genotoxicity in vivo - mouse - Unreported Cytogenetic analysis

## Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- No component of this product present at levels greater than or equal to 0.1% is identified as a ACGIH: carcinogen or potential carcinogen by ACGIH.

#### **Reproductive toxicity**

no data available

#### Teratogenicity

no data available

#### Specific target organ toxicity - single exposure (Globally Harmonized System) no data available

#### Specific target organ toxicity - repeated exposure (Globally Harmonized System) no data available

Aspiration hazard no data available

#### Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	Harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### Synergistic effects no data available

Additional Information RTECS: DG7525000

## **12. ECOLOGICAL INFORMATION**

#### Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 28 mg/l - 96.0 h	
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 96.8 mg/l - 48 h	
Persistence and degradability no data available		
Bioaccumulative potential		

no data available

Mobility in soil no data available

#### PBT and vPvB assessment no data available

#### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

## Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

## **Contaminated packaging**

Dispose of as unused product.

## **14. TRANSPORT INFORMATION**

#### DOT (US)

UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (3,6-Dichloro-2-methoxybenzoic acid) Reportable Quantity (RQ): 1000 lbs Marine pollutant: No Poison Inhalation Hazard: No

## IMDG

Not dangerous goods

## ΙΑΤΑ

Not dangerous goods

## **15. REGULATORY INFORMATION**

#### WHMIS Classification

D2B Toxic Material Causing Other Toxic Effects

Moderate eye irritant

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## **16. OTHER INFORMATION**

## Further information

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