

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200)

Issuing Date 19-Feb-2025

Revision Date 07-Jul-2025

Revision Number 4

1. Identification

Product identifier

Product Name DICROMAX 8 (1G)

Other means of identification

Product Code 2121520

CAS Number MIXTURE

UN-No UN3017

Synonyms None

Other Information EPA Reg. No. 2749-647

Recommended use of the chemical and restrictions on use

Recommended Use Agriculture

Restriction on Use Do not use where contact with food or drinking water is possible Avoid prolonged contact with eyes, skin, and clothing

Details of the supplier of the safety data sheet

Supplier Address

ACETO LIFE SCIENCES, L.L.C.
4 Tri Harbor Court
Port Washington, NY 11050-4661
Phone: (516) 627-6000
Fax: (516) 627-6093
Email: aceto@aceto.com

Emergency telephone number

Emergency telephone number(s) ChemTrec: 1-800-424-9300
Outside of the United States: 1-703-527-3887

2. Hazard(s) identification

Classification

Flammable liquids	Category 3
Acute toxicity - Oral	Category 2
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Vapors)	Category 4
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 1A
Chronic aquatic toxicity	Category 1
Acute aquatic toxicity	Category 1

Hazards not otherwise classified (HNOC)

Not applicable

Label elements



Danger

Hazard statements

Flammable liquid and vapor.
 Fatal if swallowed.
 Toxic in contact with skin.
 Harmful if inhaled.
 Causes serious eye irritation.
 May cause cancer.

Precautionary Statements - Prevention

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Use personal protective equipment as required.
 Wash face, hands and any exposed skin thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Avoid breathing dust/fume/gas/mist/vapors/spray.
 Use only outdoors or in a well-ventilated area.
 Wear eye/face protection.
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Wear protective gloves/clothing and eye/face protection.

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention.
 Specific treatment (see supplemental first aid instructions on this label).
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 Rinse mouth.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Other Information

Very toxic to aquatic life with long lasting effects.

3. Composition/information on ingredients**Substance**

Not applicable.

Mixture

Synonyms Not available

Formula Mixture

Chemical name	CAS No.	Weight-%	Trade secret
Dicrotophos	141-66-2	82	
Isopropanol	67-63-0	<=18	
Other Ingredients	N/A	<=18	

4. First-aid measures

Description of first aid measures

General advice

This product is a severe cholinesterase inhibitor. A physician should be contacted in all cases of exposure to Dicrotophos and its formulations. Wear protective equipment when treating someone exposed to Dicrotophos to prevent exposure of the rescuer.

NOTE TO PHYSICIANS. This is an Organophosphate (OP) Insecticide. IV Atropine sulfate is the antidote of choice against parasympathetic nerve stimulation. If there are signs of parasympathetic stimulation, Atropine Sulfate should be injected at 10 minute intervals in doses of 1 to 2 milligrams until complete atropinization has occurred. Pralidoxime chloride (2-PAM chloride) may also be used as an effective antidote in addition to and while maintaining full atropinization. In adults, an initial dose of 1 gram of 2-PAM should be injected, preferably as an infusion, in 250 cc of saline over a 15 to 20 minute period. If this is not practical, 2-PAM may be administered slowly by intravenous injection as a 5% solution in water over not less than 2 minutes. After about an hour, a second dose of 1 gram of 2-PAM will be indicated if muscle weakness has not been relieved. For infants and children, the dose of 2-PAM is 0.25 grams. Avoid morphine, aminophylline, phenothiazines, reserpine, furosemide and ethacrynic acid. Clear chest by postural drainage. Oxygen administration may be necessary. Observe patient continuously for 48 hours. Repeated exposure to cholinesterase inhibitors may without warning cause prolonged susceptibility to very small doses of any cholinesterase inhibitor. Allow no further exposure until time for cholinesterase regeneration has been attained as determined by a blood test. Bathe and shampoo contaminated skin and hair. If ingested, empty stomach; activated charcoal is useful to further limit absorption. If victim is alert, Syrup of Ipecac (2 tablespoons in adults, 1 tablespoon in small children) followed by water (2 glasses for adults, 1 glass for children) is indicated. If symptoms such as loss of gag reflex, convulsions, or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.

Inhalation

Remove to fresh air. Call a physician immediately. If not breathing, give artificial respiration. Be sure the contact areas are clean to prevent contamination of the rescuer.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

Skin contact

Wash off immediately with plenty of water for at least 15 minutes. Remove/Take off immediately all contaminated clothing. Do not attempt to neutralize with chemical agents. Wash contaminated clothing before reuse. Call a physician immediately.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician immediately. If swallowed, and the victim is conscious and alert, induce vomiting immediately, as directed by medical personnel.

Self-protection of the first aider

Do not handle the patient without the following protective equipment in place: Chemical resistant gloves and apron (preferably nitrile). Remove contaminated clothing and do not reuse without thorough cleaning with detergent and hot water. Dispose of heavily contaminated clothing, including shoes, as a hazardous waste.

Most important symptoms and effects, both acute and delayed

Symptoms

No information available.

Effects of Exposure

No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media	Water fog. "Alcohol" Foam. Dry chemical. Carbon dioxide (CO2).
Unsuitable extinguishing media	No information available.
Specific hazards arising from the chemical	No information available.
Hazardous Combustion Products	Thermal decomposition or combustion may produce hazardous gases and/or materials.
Explosion Data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
-----------------------------	------------------------------

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.
--------------------------------	--

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.
---------------------------	---

8. Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Dicrotophos 141-66-2	TWA: 0.05 mg/m ³ inhalable fraction and vapor S*	(vacated) TWA: 0.25 mg/m ³ (vacated) S*	TWA: 0.25 mg/m ³
Isopropanol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³
Other Ingredients N/A	-	-	-

Chemical name	ACGIH
Dicrotophos 141-66-2	70 % of baseline - red blood cells (Acetylcholinesterase activity) - end of shift 60 % of baseline - plasma (Butyrylcholinesterase activity) - end of shift
Isopropanol 67-63-0	40 mg/L - urine (Acetone) - end of shift at end of workweek

Appropriate engineering controls

Engineering controls

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Goggles. If splashes are likely to occur, wear: Face shield.

Gloves

Skin and body protection

No special protective equipment required.

Respiratory protection

Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate. Specific use regulations are listed on the label. For emergency and other conditions where the exposure limit may be greatly exceeded, use an approved positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Light yellow to Dark amber
Color	No information available
Odor	Mild Ester-like
Odor Threshold	No information available

Property	Values	Remarks • Method
pH	No data available	None known
pH (as aqueous solution)		None known
Melting point / Freezing point	No data available	No Data Available
Boiling point / boiling range	No data available	None known
Flash Point	38-43	No information available
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit	12.7%	
Lower flammability limit	2.0%	
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Relative density	1.19 g/mL / 9.9 lb/gal @ 20°C	None known
Water solubility	No data available Miscible with water	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	E-isomer - 2.445; Z-isomer = 0.000481	None known
Autoignition temperature °C	No data available	No information available
Decomposition temperature		None known
Kinematic Viscosity	No data available	None known
Dynamic Viscosity	No data available	None known

Other information

Explosive properties	No information available
Oxidizing properties	No information available
Softening Point	No information available
Molecular Weight	No information available
VOC content	No information available
Liquid Density	No information available
Bulk density	No information available

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to Avoid	None known based on information supplied.
Incompatible materials	Alkalines.
Hazardous decomposition products	Carbon monoxide. Unidentified organic compounds may be formed during combustion.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Avoid breathing dust, fume, gas, mist, vapors and spray.
Eye contact	Avoid contact with eyes.
Skin contact	Avoid contact with skin.
Ingestion	Do not take internally.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity .

Numerical measures of toxicity
No information available

Oral LD50 8/11 mg/kg
Dermal LD50 876/487 mg/kg
Inhalation LC50 > 0.059 mg/l

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Dicromophos 141-66-2	= 16 mg/kg (Rat)	= 225 mg/kg (Rabbit)	= 90 mg/m ³ (Rat) 4 h
Isopropanol 67-63-0	= 1870 mg/kg (Rat)	12800 mg/kg (Rat) 12870 mg/kg (Rabbit)	72.6 mg/L (Rat) 4 h
Other Ingredients N/A	-	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Chemical name	ACGIH	IARC	NTP	OSHA
Dicromophos 141-66-2	-	Group 2A	-	X
Isopropanol 67-63-0	-	Group 3	-	X
Other Ingredients N/A	-	cyclohexanone (108-94-1) 3	-	-

Reproductive toxicity No information available.

Teratogenic Effects	No evidence of teratogenicity in laboratory animals.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.
Other Adverse Effects	No information available.
Interactive effects	No information available.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Dicrotophos 141-66-2	-	-	-	-
Isopropanol 67-63-0	EC50: >1000mg/L (96h, Desmodesmus subspicatus) EC50: >1000mg/L (72h, Desmodesmus subspicatus)	LC50: =9640mg/L (96h, Pimephales promelas) LC50: =11130mg/L (96h, Pimephales promelas) LC50: >1400000µg/L (96h, Lepomis macrochirus)	= 35390 mg/L EC50 Photobacterium phosphoreum 5 min	EC50: =13299mg/L (48h, Daphnia magna)
Other Ingredients N/A	-	-	-	-

Persistence/Degradability No information available.

Bioaccumulation There is no data for this product.

Chemical name	Partition coefficient
Dicrotophos 141-66-2	-
Isopropanol 67-63-0	0.05
Other Ingredients N/A	-

Other adverse effects No information available.

13. Disposal considerations**Waste treatment methods****Waste from residues/unused products**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Do not reuse empty containers.

14. Transport information**DOT**

UN-No	UN3017
Proper Shipping Name	Organophosphorus pesticides, liquid, toxic, flammable
Transport hazard class(es)	6.1
Subsidiary Class	3
Packing Group	II
Special Provisions	IB2, N76, T11, TP2, TP13, TP27
DOT Marine Pollutant	P
Marine Pollutant name	Dicrotophos
Description	UN3017, Organophosphorus pesticides, liquid, toxic, flammable (Dicrotophos, Isopropanol), 6.1 (3), II, Marine pollutant
Emergency Response Guide Number	131

TDG

UN-No	UN3017
Proper Shipping Name	Organophosphorus pesticide, liquid, toxic, flammable
Transport hazard class(es)	6.1
Subsidiary Class	3
Packing Group	II
Special Provisions	16
Melting point / Freezing point	Dicrotophos.
Description	UN3017, Organophosphorus pesticide, liquid, toxic, flammable (Dicrotophos, Isopropanol), 6.1 (3), II

MEX

UN-No	UN3017
Proper Shipping Name	Organophosphorus pesticide, liquid, toxic, flammable
Transport hazard class(es)	6.1
Subsidiary Class	3
Packing Group	II
Technical Name	Dicrotophos, Isopropanol
Description	UN3017, Organophosphorus pesticide, liquid, toxic, flammable (Dicrotophos, Isopropanol), 6.1 (3), II
Special Provisions	61, 274

ICAO

UN-No	UN3017
Proper Shipping Name	Organophosphorus pesticide, liquid, toxic, flammable
Transport hazard class(es)	6.1
Subsidiary Class	3
Packing Group	II
Description	UN3017, Organophosphorus pesticide, liquid, toxic, flammable (Dicrotophos, Isopropanol), 6.1 (3), II
Special Provisions	A3, A4

IATA

UN number or ID number	UN3017
Proper Shipping Name	Organophosphorus pesticide, liquid, toxic, flammable
Transport hazard class(es)	6.1
Subsidiary hazard class	3
Packing group	II
Technical Name	Dicrotophos, Isopropanol
Description	UN3017, Organophosphorus pesticide, liquid, toxic, flammable (Dicrotophos, Isopropanol), 6.1 (3), II
Special Provisions	A3, A4
ERG Code	6F

IMDG

UN number or ID number	UN3017
Proper Shipping Name	Organophosphorus pesticide, liquid, toxic, flammable
Transport hazard class(es)	6.1
Subsidiary Class	3
Packing Group	II
EmS No.	F-E, S-D
Special Provisions	61, 274
Marine pollutant	P
Description	UN3017, Organophosphorus pesticide, liquid, toxic, flammable(Dicrotophos, Isopropanol), 6.1 (3), II, Marine pollutant

15. Regulatory information

International Inventories

TSCA Does not comply

Chemical name	CAS No.	Inventory Listing Status	Commercial Activity Designation
Dicrotophos	141-66-2	-	Unknown *
Isopropanol	67-63-0	Present	Active
Other Ingredients	N/A	-	Unknown *

Chemical name	CAS No.	References
Dicrotophos	141-66-2	-
Isopropanol	67-63-0	-
Other Ingredients	N/A	-

DSL/NDL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AIIC	Does not comply
NZIoC	Does not comply

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIoC - New Zealand Inventory of Chemicals

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Dicortophos 141-66-2	-	-	-	-
Isopropanol 67-63-0	-	-	-	-
Other Ingredients N/A	-	-	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Dicortophos 141-66-2	-	100 lb	
Isopropanol 67-63-0	-	-	
Other Ingredients N/A	-	-	

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number 2749-647

EPA Statement

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:.

EPA Pesticide Label

Danger Fatal if swallowed. May be fatal if absorbed through skin or if inhaled. Causes moderate eye irritation. Prolonged or frequent repeated skin contact, may cause allergic reactions in some individuals.

16. Other information

NFPA **Health hazards** 3 **Flammability** 2 **Instability** 0 **Special hazards** -

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation
+	Sensitizers		

Key literature references and sources for data used to compile the SDS

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 U.S. Environmental Protection Agency
 Acute Exposure Guideline Level(s) (AEGL(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan National Institute of Technology and Evaluation (NITE)
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 U.S. National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
 International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
 International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
 United Nations World Health Organization (WHO)

Issuing Date 19-Feb-2025

Revision Date 07-Jul-2025

Revision Summary

Disclaimer

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.

End of Safety Data Sheet