

SAFETY DATASHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	Dichlorprop-P (present as 2 ethyl hexyl ester) 25G/L EC
Other name:	/
Recommended use of the chemical and restrictions on use	Plant growth regulator
Registration holder:	Rainbow Agrosociences Pty Ltd Mazars house, Rialto Road, Grand Moorings Precinct, Century City, 7441 Tel: +27 78 055 6520
Supplier name:	Shandong Weifang Rainbow Chemical Co., Ltd.
Supplier address:	Binhai Economic Development Area, Weifang, Shandong, China
Supplier phone:	+86-531-88875222, 88875231
Supplier fax:	+86-531-88875232, 88875224
Emergency phone number:	+86-531-88875222

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Hazard Class	Category	Hazard Statement	Number
Acute Oral Toxicity	5	H303	
Acute Dermal Toxicity	5	H313	
Acute Inhalation Toxicity	5	H333	
Skin Corrosion/Irritation	2	H315	
Serious Eye Damage/Irritation	1	H318	
Skin sensitization	1	H317	
Germ cell mutagenicity	1B	H340	
Carcinogenicity	1B	H350	
Reproductive toxicity	2	H361	
Specific target organ toxicity – Single	3	H336	
Respiratory sensitization	1	H334	
Aquatic Toxicity Acute	2	H401	
Aquatic Toxicity Chronic	3	H412	

GHS Label elements, including precautionary statements:



Signal word: DANGER

Hazard statement(s):

H303: May be harmful if swallowed

H313: May be harmful in contact with skin

H333: May be harmful if inhaled

H315: Causes skin irritation

H318: Causes serious eye damage

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H317: May cause an allergic skin reaction
H340: May cause genetic defects
H305: May cause cancer.
H361: Suspected of damaging fertility or the unborn child.
H336: May cause drowsiness or dizziness
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H401: Toxic to aquatic life
H412: Harmful to aquatic life with long lasting effects

Precautionary statement(s):

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P203: Obtain, read and follow all safety instructions before use.
P264: Wash hand thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P284: [In case of inadequate ventilation] wear respiratory protection.
P301+P317: IF SWALLOWED: Get medical help.
P302 + P317: IF ON SKIN: Get medical help.
P302 + P352: IF ON SKIN: Wash with plenty of water.
P304 + P317: IF INHALED: Get medical help.
P305 + P354 + P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P317: Get medical help.
P318: IF exposed or concerned, get medical advice.
P319: Get medical help if you feel unwell.
P321: Specific treatment (see it on this label).
P332 + P317: If skin irritation occurs: Get medical help.
P342 + P316: If experiencing respiratory symptoms: Get emergency medical help immediately.
P362 + P364: Take off contaminated clothing and wash it before reuse.
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.
P501: Dispose of contents/container to in accordance with local/regional/national /international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration(%)
Dichlorprop-P (present as 2 ethyl hexyl ester)	15165-67-0	2.5
Others	-	Up to 100%

4. FIRST - AID MEASURES

INHALATION: Remove affected person to fresh air until recovered. Ensure the person is warm and comfortable. If symptoms develop or persist, seek medical advice.
SKIN CONTACT: Wash affected areas thoroughly with soap and water. Remove contaminated clothing

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immediately. Obtain medical attention if irritation occurs.

EYE CONTACT: If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. If eye irritation persists, Obtain medical attention

INGECTION: Clean mouth with water. Do not induce vomiting. Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water fog, foam, carbon dioxide or dry chemical.

UNSUITABLE High volume water jet.

EXTINGUISHING MEDIA

PROTECTIVE EQUIPMENT: Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.

SPECIFIC METHODS: Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles..

Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal. On-site disposal of concentrate is not acceptable. Dispose of at a landfill in accordance with local regulations.

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

7. HANDLING AND STORAGE

HANDLING: Smoking, eating and drinking should be prohibited in the application area. Always read the label and any attached leaflet before use.

STORAGE: Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Keep in original packaging. Keep away from all ignition sources and store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

Incompatible substances and mixtures: Refer to product label.

Packaging material: HDPE plastic containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Handle in well ventilated areas, generally natural ventilation is adequate.

EYES AND FACE: Glasses/goggles should be worn.

RESPIRATORY: In case of insufficient ventilation, wear suitable respiratory equipment.

SKIN PROTECTION: Wear sensible regularly laundered overalls. Showering and changing into street clothes after work is recommended.

GLOVES: Nitrile gloves

HYGIENE MEASURES: Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and at the end of work day.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color etc.):	Pale yellow liquid
Odor:	Typical aromatic odour
Odor threshold:	No data available
pH:	6.1
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	68°C
Evaporation rate:	No data available
Flammability (solid, gas):	Combustible liquid C1
Upper/lower flammability or explosive limits:	Not explosive
Vapor pressure:	0.11mPa (25°C, estimated for dichlorprop-P 2 ethyl hexyl ester)
Vapor density:	No data available
Relative density:	0.91 g/ml
Solubility(ies):	Dispersible
Partition coefficient: n-octanol/water:	Log P=6.54 (25°C estimated for dichlorprop-P 2 ethyl hexyl ester)
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available

10. STABILITY AND REACTIVITY

STORAGE STABILITY:	Stability data provided by the applicant supports a storage life of 2 years when stored under normal conditions in fluorinated high density polyethylene containers.
CONDITIONS TO AVOID:	Keep away from strong oxidizing agents
POLYMERIZATION:	Hazardous polymerization is not possible

11. TOXICOLOGICAL INFORMATION

Acute health effects:

Exposure routes: Eye contact, Skin contact, Skin Absorption, Ingestion.

Ingestion: Maybe Harmful if swallowed.

Inhalation: Maybe Harmful if inhalation.

Numerical measures of toxicity:

Acute oral LD50:	2189.1 mg/kg
Acute dermal LD50:	2484.8 mg/kg
Acute inhalation LC50:	5.49 mg/l
Skin irritation:	Category 2
Eye irritation:	Category 1
Skin sensitization:	Category 1
Respiratory sensitization:	Category 1
Germ cell mutagenicity:	Category 1B
Carcinogenicity:	Category 1B

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Reproductive toxicity and Developmental toxicity:	Category 2
Specific target organ toxicity (single exposure):	Category 3
Repeated dose toxicity and Specific target organ toxicity (repeated exposure):	Not available
Aspiration hazard:	Not available

12. ECOLOGICAL INFORMATION

Dichlorprop-P Tech:

TOXICITY TO BEES:	LD50 >200 Nontoxic µg/bee
TOXICITY TO BIRDS:	LC50 <i>Colinus virginianus</i> : 234 mg/kg
TOXICITY TO FISH:	LC50 (96h) Rainbow trout: >109 mg/l
TOXICITY TO DAPHNIA:	EC50 (48h) <i>Daphnia magna</i> : >100 mg/l
TOXICITY TO EARTHWORMS:	LC50 (96h): >1000 mg/kg

Persistence and degradability:

Azoxystrobin: DT50 = 12 days, Non-persistent in soil;

Bioaccumulative potential:

It is not expected to bioaccumulate.

Mobility in the soil:

EU 2017 dossier Kf range 0.105-1.68 mL g⁻¹, Kfoc range 12.9-81.5 mL g⁻¹, 1/n range 0.65-0.91, Soils=11.

Other adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

PESTICIDE AND CONTAINER DISPOSAL:

On site disposal of the concentrated product is not acceptable. Do not empty into drains. May be taken to waste disposal site or incineration plant when in compliance with local regulations refer to the local waste regulation authority

Do not use this container for any other purpose. Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

UN number:

Not applicable.

UN proper shipping name:

Not applicable.

Transport hazard class(es):

Not applicable.

Packing group, if applicable:

Not applicable.

Marine pollutant (Yes/No):

Not applicable.

Special precautions for user:

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Not applicable.

15. REGULATORY INFORMATION

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given.

Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and /or local laws.

16. OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

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