



Safety Data Sheet

SDS No.:
SDS-P/WP-K/01

Kimiru

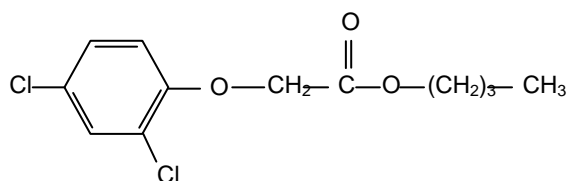
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Section 1: Identification of the Hazardous Chemical and of the Supplier

1.1 Product Identifier

Product Name: 2,4-D BE 45% WP
Trade Name: Kimiru
Active Ingredient: 2,4-D Butyl Ester
CAS No.(AI): 94-80-4
Structural Formula:



Recommended Usage: Herbicide

1.2 Supplier's Information

Address: Agricultural Chemicals (M) Sdn. Bhd.
962, Lorong Perusahaan 8
Taman Perindustrian Perai
13600 Perai, Pulau Pinang
Malaysia
Tel.: +6-04-3907988
Fax: +6-04-3905703
Web: www.agrichem.com.my
Emergency Phone: +6-04-3907988

Section 2: Hazard Identification

Classification: Acute Toxicity, Oral Category 4
Eye Irritation, Category 2
Skin Sensitization, Category 1
Hazardous to the Aquatic Environment – Acute Hazard, Category 1
Hazardous to the Aquatic Environment – Chronic Hazard, Category 1

Pictogram:



Signal Word: Warning

Hazard Statement:
H302 Harmful if swallowed
H319 Causes serious eye irritation



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H317: May cause allergic skin reaction
H400: Very toxic to aquatic life
H410: Very toxic to aquatic life with long lasting effects

Precautionary Statement:

P264: Wash exposed body part thoroughly after handling
P270: Do not eat, drink, or smoke when using this product
P280: Wear rubber gloves, protective clothing, safety goggles and face protection
P261: Avoid breathing dust
P272: Contaminated work clothing shall not be allowed out of the workplace
P273: Avoid release to the environment

Section 3: Composition and Information of the Ingredients of the Hazardous Chemical

Component	CAS No.	Weight, %	Hazard Code
2,4-D Butyl Ester	94-80-4	45%	H302, H317, H400, H410
Surfactant 1	-	1% to < 3%	H302, H315, H318
Surfactant 2	-	1% to < 3%	-
Filler	-	10% to < 30%	H319
Color	-	< 1%	-
Water	-	< 1%	-
Carrier	-	10% to < 30%	H319

Section 4: First-aid Measures

Call a POISON CENTER or doctor/physician if you feel unwell.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse

Eye Contact: 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.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

Symptoms: Headache, weakness, nausea, loss of appetite, vomiting and diarrhea.



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Notes to Physician:

Treatment is symptomatic. If ingest and patient is not vomiting, gastric lavage should be performed. For emergency measures, give activated carbon followed by emesis and gastric lavage

Section 5: Fire-fighting Measures

Suitable Extinguishing Media: Carbon dioxide (CO₂), chemical foam, dry chemical, water
Specific Hazard During Fire: Technical produces toxic fumes on decomposition in a fire
Special Protective Equipment: Fire fighters should wear full-faced self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

Personal Precautions: Do not handle until all safety precautions have been read and understood. Wear appropriate protective equipment as required
Environmental Precautions: Avoid release to the environment
Method for Cleaning Up: Wear protective clothing as indicated in Section 8. Evacuate non essential personnel. Collect the spill into waste container for disposal. Wash the contaminated area with a little water and detergent. Adsorb with inert material such as clay or earth. Collect into the same container for disposal. Prevent the spillage from entering local drainage system.

Section 7: Handling and Storage

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment.
Conditions for Safe Storage: Keep in original container, tightly closed, out of reach of children. Keep away from food, drinks and animal feeding stuffs. Read the label before use. Do not contaminate water. Open dumping is prohibited.
Incompatibles: No data available

Section 8: Exposure Control and Personal Protection

Exposure Limit:

Source	Component	CAS No.	Limit	
-	Filler	-	TWA	10mg/m ³
OSHA			STEL-TWA (<1%)	6mg/m ³
ACGIH			STEL-TWA (<1%)	10mg/m ³
NIOSH			STEL-TWA 10hour(s)	6mg/m ³
OSHA PEL	Carrier	-	TWA total particulate	15mg/m ³



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Source	Component	CAS No.	Limit	
ACGIH TLV			TWA respirable fraction	5mg/m ³
			TWA for respirable dust, A4 not classifiable as a human carcinogen	2mg/m ³
NIOSH REL			TWA total particulate	10mg/m ³
			TWA respirable fraction	5mg/m ³

Engineering Control: Local exhaust ventilation

Individual Protection Measure: Avoid inhalation. Wash thoroughly after handling and before eating or drinking. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin and eyes.

Personal Protective Equipment:

Eye Protection: Protective goggles

Skin Protection: Protective gloves and clothing

Respiratory Protection: Pesticide respiratory masks

Section 9: Physical and Chemical Properties

Appearance: Bluish powder

Odour: Characteristic odour

Odour Threshold: No data available

pH: 3 – 6 (10% suspension)

Melting/Freezing Point: No data available

Initial Boiling Point: No data available

Boiling Range: No data available

Flash Point: No data available

Evaporation Rate: No data available

Flammability: No data available

Upper Flammability Limit: No data available

Lower Flammability Limit: No data available

Vapour Pressure: No data available

Vapour Density: No data available

Relative Density: 0.25 – 0.45 g/cm³ (bulk density)

Solubility in Water: Dispersible in water

Partition Coefficient P_{o/w}: No data available

Auto-ignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: No data available

Section 10: Stability and Reactivity

Reactivity: No data available

Chemical Stability: Stable under normal conditions

Hazardous Reaction: None



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Condition to Avoid: Direct sunlight, heat and extreme temperature
Incompatible Material: No data available
Hazardous Decomposition Product: Technical produces toxic fumes on decomposition in a fire

Section 11: Toxicological Information

11.1 Acute Toxicity

Component: 2,4-D Butyl Ester			
Ingestion, Oral LD ₅₀ :			
	Rat	600mg/kg	
Skin Contact, Dermal LD ₅₀ :			
	Rabbit	> 2000mg/kg	
Component: Surfactant 1			
Ingestion, Oral LD ₅₀ :			
	Rat	≥ 1400mg/kg	

11.2 Chronic Effect from Short and Long Term Exposure

Skin Contact: May cause allergic skin reaction
Eye Contact: Causes serious eye irritation
Inhalation: No data available
Ingestion: Harmful if swallowed
Carcinogenicity: No data available
Mutagenicity: No data available
Teratogenicity: No data available

11.3 Symptoms

Headache, weakness, nausea, loss of appetite, vomiting and diarrhea.

Section 12: Ecological Information

Ecotoxicity:

Component: 2,4-D Butyl Ester			
Aquatic Toxicity			
	Lepomis macrochirus, LC ₅₀ , 96hr	0.3mg/L	
	Daphnia magna (water flea), EC ₅₀ , 96 hr	2.8mg/L	

Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effect: No data available



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Section 13: Disposal Information

Dispose of contents/container to Kualiti Alam / authorized body by DOE (pesticides).

Section 14: Transportation Information

Land (ADR/RID)

Proper Shipping Name	Pesticide, Solid, Toxic, N.O.S.
Hazard Class	6.1
Hazchem Code	-
UN number	2588
Packing Group	III
Label / Mark	6

Sea (IMDG)

Proper Shipping Name	Pesticide, Solid, Toxic, N.O.S.
Hazard Class	6.1
UN Number	2588
Packing Group	III
Marine Pollutant	-
Label	6
Transport Document Name	-

Air (IATA)

Proper Shipping Name	Pesticide, Solid, Toxic, N.O.S.
Hazard Class	6.1
UN number	2588
Packing Group	III
Label / Mark	6
Transport Document Name	-

Section 15: Regulatory Information

Classification: Acute Toxicity, Oral Category 4
Eye Irritation, Category 2
Skin Sensitization, Category 1
Hazardous to the Aquatic Environment – Acute Hazard, Category 1
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Signal Word: Warning

