

MATERIAL SAFETY DATA SHEET

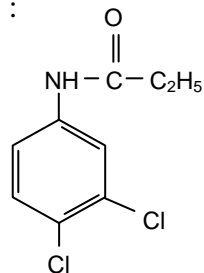
Introductory Details

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Date of preparation : 27th March 2004
Date revised : 11 June 2008

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Details

Product Name : Propanil 34% EC
Trade Name : ACM PROPANIL / ELSOZIN
Chemical Name : N-(3,4-Dichlorophenyl)propanamide
Chemical Formula : C₉H₉Cl₂NO
Molar Mass : 218.08
Chemical Family : Anilide ompound
Manufacturer's Code : -
Use : Selective, post-emergent herbicide
Structural Formula :



Propanil

1.2 Company Identification

Manufacturer

Name and Address : Agricultural Chemical (M) Sdn. Bhd.
962, Lorong Perusahaan 8, Taman Perindustrian Perai,
13600 Perai, Pulau Pinang, Malaysia.
Telephone Number : 604-390 7988
Emergency Telephone Number : 604-390 7988

1.3 Contact Point

Designation : Ms. Cheong Wai Ching, Product Support Manager /
En. Ahmad Labib bin Yusof, Administrative Assistant
Tel. No. : 604-390 7988

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SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name	CAS No.	Proportion	Exposure Limit	Toxicity Data
N-(3,4-Dichlorophenyl) propanamide	333-41-5	34 %	Refer to Section 9	Refer to Section 11
Surfactant	-	< 25 %		
Solvent	-	Balance		

SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Yellowish to brownish liquid
Odour : Characteristic odour
Solubility : Miscible with water
Boiling Point (Technical) : > 400°C
Melting Point (Technical) : 85 - 89°C
Vapour Pressure (Technical) : 9×10^{-5} mmHg at 60°C
Percentage Volatiles : No data available
Evaporation Rate : No data available
Vapour Density : No data available
Specific Gravity : 1.07
Flash Point : 96°C
Autoignition temperature : No data available
Flammable Limit (%) : No data available

SECTION 4 : HAZARD IDENTIFICATION

Harmful by inhalation.
Irritating to eyes, respiratory system and skin.
Risk of serious damage to eyes

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SECTION 5 : FIRST AID MEASURES

- Ingestion : Induce vomiting after drinking water. As soon as vomited fluid is clear, administer as much milk as the patient can tolerate. Avoid fats, oils, alcohol or epinephrine. Get prompt medical attention.
- Eye contact : Flush with plenty of water. Get medical attention.
- Skin contact : Remove contaminated clothing and wash skin thoroughly with soap and water.
- Inhalation : Remove patient to fresh air and administer positive oxygen therapy as required.
- Notes to physician :
- Poisoning symptoms : Irritation of eyes, nausea, excessive urination, respiratory difficulties, lassitude and gloomy.
- Medical treatment : Treatment is symptomatic.

SECTION 6 : FIRE FIGHTING MEASURES

- Extinguishing Media : Water and foam.
- Fire fighting instruction : Fire fighters should wear full-faced self contained breathing apparatus and protective clothing.
- Special hazards : Not particular

SECTION 7 : ACCIDENTAL RELEASE MEASURE

Leak and/or Spill :

Wear protective clothing. Eliminate ignition source. Ventilate area. Absorb spills with inert material such as clay, sand, earth, sawdust etc. and collect in a drum. Cover up the contaminated area with household detergent and small amount of water. Brush the slurry and spread inert absorbents on the slurry liquid and collect the absorbed material in a drum. Seal drum and dispose of. Do not contaminate water resources.

SECTION 8 : HANDLING AND STORAGE

- Handling : Read the label before use. Wear protective clothing such as pesticide respiratory masks, protective gloves. Protective clothing should be changed at least daily.
- Storage : Keep in original container, tightly closed, in a cool dry and well-ventilated place, out of reach of children. Keep away from foodstuffs and animal feeds.

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SECTION 9 : EXPOSURE CONTROL AND PERSONAL PROTECTION

- a. Exposure Limit : No occupational exposure limits established by OSHA, ACGIH or NIOSH.
Propanil : TWA recommended by Rohm & Haas 5 mg/m³
STEL recommended by Rohm & Haas 10 mg/m³
Subject to SARA Section 313 Annual Toxic Chemical Release Reporting.
- b. Engineering measures : Local exhaust ventilation
- c. Personal protection : Wear pesticide respiratory masks, protective gloves and clothing.

SECTION 10 : STABILITY AND REACTIVITY

Conditions to avoid : Direct sunlight, heat and extreme temperature
Incompatible : Carbamate and organophosphorous pesticides.
Decomposition Products : No data available
Hazardous polymerization : No data available
Stability : Stable under normal condition.

SECTION 11 : TOXICOLOGICAL INFORMATION (TECHNICAL)

Toxicity Data :

Acute Oral LD ₅₀	: (Rat) male	840 mg/kg
	female	930 mg/kg
	(Mouse) male	2680 mg/kg
	female	2300 mg/kg
Acute Dermal LD ₅₀	: (Rabbit)	> 7080 mg/kg
	(Rat)	> 5000 mg/kg
Inhalation LC ₅₀	: (Rat)	> 1239 mg/kg

Carcinogenicity : NTP - Not listed
IARC Monograph - Not listed
OSHA Regulated - Not listed

Reproductive Effect : No data available

Effects of overexposure : Local irritation and CNS depression. Gagging, coughing, nausea and vomiting followed by headache, dizziness, drowsiness and confusion.

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Chronic effects : No data available
Target organs : No data available
Sensitizing effects : Not sensitizing

Irritant properties : May cause eye irritation.
May cause moderate skin irritation.
May be irritating to respiratory system.

Medical Conditions Generally Aggravated by Exposure : No data available

SECTION 12 : ECOLOGICAL INFORMATION (TECHNICAL)

Mobility & Bioaccumulation : No data available
Biodegradability : No data available
Static acute LC₅₀ : (Carp) 15 ppm
(Daphnia) 4.8 mg/l

SECTION 13 : DISPOSAL INFORMATION

Dispose of according to local regulation.

SECTION 14 : TRANSPORT INFORMATION

Follow the precaution indicated in the storage and handling section. Follow all regulations in your country.

SECTION 15 : REGULATORY INFORMATION

Pesticides Act : Class III - Harmful

CPL Regulations : Class - Harmful

Risk Phrases : R20 Harmful by inhalation.
R36/37/38 Irritating to eyes, respiratory system and skin.
R41 Risk of serious damage to eyes

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Safety Phrases : S2 Keep out of reach of children
S25 Avoid contact with eyes
S39 Wear eye/face protection.

SECTION 16 : OTHER INFORMATION

Reference : (a) Material Safety Data Sheet - ACM Propanil
Date : 21-11-1995

(b) Material Safety Data Sheet - DCPA Technical
Date of preparation : 5 March 2002

(c) Guidelines for The Classification of Hazardous Chemicals, DOSH 1997

(d) Guidelines for The Formulation of A Chemical Safety Data Sheet, DOSH 1997

(e) Guidelines for Labelling of Hazardous Chemicals, DOSH 1997

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.