



# Material Safety Data Sheet

## Section 1: Identification

**Product Name:** Propanil Technical

**Chemical Name/Synonyms:** N-(3,4-dichlorophenyl)propanamide

**(CAS#):**709-98-8

**Product Use:** Herbicide

**Company Name:** Meghmani Industries Limited

**Registered Office:** 5<sup>th</sup>, 8<sup>th</sup> & 9<sup>th</sup> Floor, B-wing, Siddhi Vinayak Towers, Nr. Kataria Arcade, S G Highway, Makarba, Ahmedabad-380051, Gujarat, India.

**Contact no.:** +91-79-26812827

## Section 2: Hazard(s) Identification

### Hazard Classification:

Acute toxicity, Oral (Category 4), H302

Acute aquatic toxicity (Category1), H400

### Signal Word(s):

### Hazard Statements:

H302      Harmful if swallowed.

H400      Very toxic to aquatic

### Pictograms:



### Precautionary Statements:

P264      Wash skin thoroughly after handling

P270      Do not eat, drink or smoke when using this product.

P273      Avoid release to the environment.

P301+P312+P330      if swallowed: call a poison center/doctor if you feel unwell.

Rinse mouth.

P391      Collects spillage

P501      Dispose of contents/container to an approved waste disposal plant.



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**Description of other hazards:** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## Section 3: Composition/ Information on Ingredients

Chemical Name	Synonym	CAS#	Conc.
Propanil	N-(3,4-dichlorophenyl) propanamide	709-98-8	98.00% w/w
Other ingredients			2.0% w/w

## Section 4: First-Aid Measures

**General advice:** Consult a physician.

**After skin contact:** Take off immediately all contaminated clothing. Rinse skin with running water/ shower for 15 minutes.

**After eye contact:** Hold Eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

**After inhalation:** Remove the patient from the exposure area to fresh air immediately. If breathing has stopped perform the artificial respiration. Keep person warm and rest. Get medical attention immediately.

**After swallowing:** Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. Keep patient warm and at rest. Never give anything by mouth to an unconscious person. Obtain medical attention.

**Delayed Symptoms:** Harmful if swallowed.

Very toxic to aquatic life with long lasting effects.

## Indication of any immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. There is no specific antidote.



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## Section 5: Fire-Fighting Measures

**Suitable extinguishing agents:** Water, Foam, Carbon dioxide (CO<sub>2</sub>), Sand

**Special hazards arising from the substance or mixture**

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus and protective suit.

## Section 6: Accidental Release Measures

**Personal precautions:** Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke. Use personal protective equipment. Keep unauthorized people away.

**Measures for environmental protection:** Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities.

**Measures for cleaning/collecting:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

## Section 7: Handling and Storage

**Handling:** avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage:** Store in original container and out of the reach of children, preferably in a locked storage area. Keep away from direct sunlight. Keep containers tightly closed In a dry, cool and well-ventilated place.

**Advice on common storage:** Keep away from food, drink and animal feeding stuffs.



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## Section 8: Exposure Controls/Personal Protection

Chemical Name	OSHA PEL	OSHA PEL (ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Data Not Available				

**General protective and hygienic measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Breathing equipment:** Full Face Mask with Cartridge, BUBBLE HOOD, Air line Respiratory system as per ISI : 10245, HALF FACE CARTRIDGE RESPIRATOR, Dust Mask / (N95).

**Protection of hands:** Chemical Resistant Hand Gloves as per IS approved.

**Eye protection:** Chemical Splash Goggles as per IS:8520 government standards such as NIOSH (US) or EN 166(EU): Face Shield as per IS-8521 marked.

**Skin and body protection:** Chemical Protection Suit/ Air Pressure Suit as per ISI: 4501 marked., Disposable Apron.

## Section 9: Physical and Chemical Properties

**Form:** Brown crystal

**Odor:** No data available

**Odor threshold:** No data available

**pH:** No data available

**Melting point/melting range:** 91.5 °C

**Boiling point/boiling range:** +400 °C

**Flash point:** > 100 °C

**Evaporation rate:** No data available

**Flammability:** No data available

**Upper/lower flammability or explosive limits:** No data available

**Auto ignition temperature:** No data available

**Danger of explosion:** No data available

**Vapor pressure:** 0.02 mPa (20

**Vapor density:** No data available



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**Relative density:** No data available

**Solubility in/Miscibility with water:** In water 130mg/l(20°C). In isopropanol, dichloromethane >200, toluene 50-100, hexane <1 (all/g/l, 20°C). In benzene 7x104, acetone 1.7-106, ethanol 1.1-106 (all in ppm, 25°C)

## Section 10: Stability and Reactivity

**Reactivity:** Stable under normal conditions.

**Chemical stability:** Hydrolyzed in strongly acidic and alkaline media to 3, 4-dichloro aniline and propionic acid; stable at normal pH range: DT50 (22 °C) >>1 y (pH 4, 7, 9). Rapidly degraded in water by sunlight; photolysis DT50 12-13h

**Conditions to avoid:** No data available

**Incompatible materials:** Strong Oxidizing agents

**Hazardous decomposition products:** Hazardous decomposition products formed under fire conditions. Carbon monoxide, Nitrogen oxides (NOx), Hydrogen chloride gas. Other decomposition products - No data available In the event of fire: see section 5

## Section 11: Toxicological Information

**Acute toxicity: Oral:** Acute oral LD50 for rats >>300-2000 mg/kg BW, mice c.1800mg/kg

### Potential routes of exposure/potential health effects

**Skin:** Non Irritant

**Eye:** Non Irritant

**Inhalation:** LC50(4h) for rats >1.25mg/lair(dust)

### Ingestion:

**Carcinogenic effects:** Not adequate data to determine if propanil can increase the risk of cancer in humans

**Mutagenic effects:** Non Mutagenic

**Reproductive toxicity:** No data available

**Sensitization:** No data available

**Target organs:** Animal studies indicate that consuming large amounts of propanil over a long period of time results in liver damage



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## Section 12: Ecological Information (non-mandatory)

### **Ecotoxicity:**

#### **Toxicity**

**Birds:** Acute oral LD50 for mallard ducks 375, bob white quail 196mg/kg. Dietary LC50(5d) for mallard ducks 5627, bobwhite quail 2861 ppm

**Fish:** LC50(48h) for carp 8-11mg/l

**Daphnia:** LC50(48h) 4.8mg/l

**Bees:** Not toxic to bees; LD50(contact and oral) 240µg/bee

**Worms:** No toxic effects against *Lumbricusrebellus*

**Mobility:** No data available

**Biodegradation:** Bio degradability Result: Readily biodegradable

**Bioaccumulation:** Bioaccumulation Osteichthyes-10 d-200µg/l Bio concentration factor(BCF): 10-15

## Section 13: Disposal Considerations (non-mandatory)

### **Waste treatment methods**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste.

Handle uncleaned containers like the product itself.

### **Contaminated packaging**

Dispose of as unused product.

## Section 14: Transport Information (non-mandatory)

### **UN number**

ADR/RID: 3077

IMDG: 3077

IATA: 3077

### **UN proper shipping name**

ADR/RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

### **Transport hazard class(es)**



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ADR/RID: 9

IMDG: 9

IATA: 9

## Packaging group

ADR/RID: III

IMDG: III

IATA: III

## Environmental hazards

ADR/RID: yes

IMDG Marine pollutant: yes

IATA: yes

## Special precautions for user

Tunnel restriction code: (-)

## Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packaging's and combination packaging's containing inner packaging with Dangerous Goods > 5L for liquids or > 5kg for solids. Packages smaller than or equal to 5 kg/L, not dangerous goods of Class 9

## DOT regulations:

No data available

- **Hazard class:** No data available
- **Land transport ADR/RID (cross-border):** No data available
- **ADR/RID class:** No data available
- **Maritime transport IMDG:** No data available

## Air transport ICAO-TI and IATA-DGR:

No data available

- **ICAO/IATA Class:** No data available

## Section 15: Regulatory Information (non-mandatory)

This safety data sheet complies with the requirements of Regulation

(EC)No.1907/2006. Safety, health and environmental regulations/legislation **specific for the substance or mixture:** no data available.

**Chemical Safety Assessment:** no data available.

## US Federal Regulations

**SARA Section 355 (extremely hazardous substances):** No data available

**SARA Section 313 (specific toxic chemical listings):** No data available

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs):** No data available

**TSCA (Toxic Substances Control Act):** No data available



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## Section 16: Other Information

This SDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

### **MSDS date of preparation/update:**

MSDS Creation Date: 01/01/2025

Revision No.: 00

Next Review Date: 31/12/2027