

MATERIAL SAFETY DATA SHEET



NACL INDUSTRIES LIMITED (Formerly known as Nagarjuna Agrichem Limited)

MYCLOBUTANIL TECHNICAL

1. Product Identification

Product Name : Myclobutanil Technical
CAS No : 88671-89-0
Chemical Family : Triazole
Chemical Name : 2-*p*-chlorophenyl-2-(1H-1,2,4-triazol-1-ylmethyl)hexanenitrile
Manufacturer : NACL Industries Limited
(Formerly known as Nagarjuna Agrichem Limited)
Plot No.12-A, 'C' Block, Lakshmi Towers, Nagarjuna Hills,
Punjagutta, Hyderabad- 500082_Telangana, INDIA
Emergency Phone: 040 33605264

2. Composition / Information on ingredients

Name	CAS #	% w/w
Myclobutanil Technical <i>a.i.</i>	88671-89-0	90.0
Associated impurities	-	10.0

3. Health Hazards Identification

Primary routes of exposure : Eye contact, skin contact, inhalation

Potential Health Effects

Inhalation : Prolonged inhalation is possibly harmful

Ingestion : Possibly harmful if swallowed.

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Skin Contact	Slight irritant to skin
Eye Contact	Causes substantial irritation

4. First Aid Measures

For eyes	Hold eye open and rinse slowly and rinse gently with fresh water for 15-20 minutes. If irritation persists, consult a medical Physician.
For Skin	Take off contaminated clothing. Rinse skin immediately with plenty of water and soap for 15-20 minutes.
For Inhalation	Move person to fresh air. Give artificial respiration if required and call ambulance.
For Ingestion	Give two glasses of water to drink or medical charcoal in plenty of water. Seek medical attention if a large column of concentrate was ingested or if irritation should persist. Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Fire	Not expected to be a fire hazard
Explosion	None identified
Extinguishing media	Media suitable to extinguish the supporting or surrounding fire like carbon dioxide, dry chemical or water spray.

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6. Accidental Release Measures

In Case of Spill or Leak Control the spill at its source. Appropriate protective equipment to be used when handling a spill. Remove all contaminated clothing promptly and do not take it home for cleaning. Contain the spill to prevent it from spreading, contaminating soil, or entering sewage and drainage systems or any body of water. Clean the spills immediately. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent. Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in disposal containers, seal container and arrange for disposition.

7. Handling and Storage

Handling information Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling. When handling and processing this material, local exhaust ventilation may be required to control dust and reduce exposure to vapors. To prevent dust explosions bonding and grounding for operations capable of generating static electricity.

8. Exposure Controls/Personal Protection

Inhalation Use approved chemical cartridge respirator with organic vapor cartridges and Pre- filters or a supplied air respirator

Eye protection Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Where contact is likely wear chemical- resistant gloves, coverall, socks

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Skin Protection	and chemical- resistant foot wear. For over head exposure, wear chemical-resistant head gear
Ingestion	Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

9. Physical and Chemical Properties

Appearance	: Pale yellow crystalline powder
Boiling point	: 390.8 ⁰ C/ 97.6 kPa
Melting Point	: 70.9 ⁰ C
Solubility	: Soluble in common organic solvents

10. Stability and Reactivity

Stability	:Stable in water (4-9pH) at 25 ⁰ C
Hazardous decomposition products	:There are no hazardous decomposition products for this material
Hazardous polymerization	:Will not occur

11. Toxicological Information

Oral LD₅₀	Rat: 2500.86 mg/kg body weight.
Dermal LD₅₀	Rabbits: > 5000 mg/kg body weight
Inhalation	Rats: > 5.1 mg /L

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Dermal irritation Rabbits: Non-irritant

Eye irritation Rabbits: Non-irritant

12. Ecological Information

Bluegill fish 4.4 mg/l

Rainbow trout 2.0 mg/l

Daphnia LC₅₀ (48 h) 17 mg/l

Algae EC₅₀ (96 hr) 0.91 mg/l

Honey bee LD₅₀ Non toxic

Bobwhite Quail > 5000 mg/kg

Mallard Ducks > 5000 mg/kg

Environmental Fate

Persistence (Half-life) Soil 66 days.

In animals undergoes oxidation at the butyl group to a ketone and an alcohol with partial conjugation to a glucoside. Following administration, rapidly in the faeces and urine. In plants, metabolism is the same as in animals.

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13. Disposal Considerations

Waste Disposal Method

Do not reuse product containers. Dispose off product containers, waste containers and residues according to local, state and federal health and environmental regulations.

14. Transport Information

Rail/Road (RID/ADR)

Proper Shipper Name : Environmentally Hazardous substance, solid toxic, N.O.S.
Class: 9
UN No.: 3077
Packing Group: III

Sea (IMDG – Code)

Proper Shipper Name : Environmentally Hazardous substance, solid toxic, N.O.S.
Class: 9
UN No.: 3077
Packing Group: III
Marine pollutant No

Air (ICAO/IATA)

Proper Shipper Name : Environmentally Hazardous substance, solid toxic, NOS
Class: 9
UN No.: 3077
Packing Group: III

15. Regulatory Information

EU- Classification

Hazard Symbol Xn Harmful
N Dangerous for the environment

Special Risks (R-Phrases)

R22: Harmful if swallowed
R36: Irritating to eyes
R51/53: Toxic to aquatic organisms, may cause long-term adverse

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effects in the aquatic environment

Safety Advice (S- Phrases)	35	This material and its container must be disposed of in a safe way
	36/37	Wear suitable protective clothing and gloves.
	57	Use appropriate container to avoid environmental contamination.
International WHO Toxicity Classification	III	Slightly hazardous

16. Other Information

The information contained herein is based on the present state of our knowledge as is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.