

Pool Maxx Algo Pro

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Pool Maxx Algo Pro
Product code : -

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. -

1.3. Details of the supplier of the safety data sheet

ZYAX Chem PVT. LTD.,
3rd Floor, Kamer Building,
38 Cawasji Patel Street, Fort,
Mumbai - 400001, India.
Contact No: +91 8779240420
info@zyax.in - www.zyax.in

1.4. Emergency telephone number

Emergency number : +91 22 2757 3899

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

HUMAN HEALTH HAZARDS: Acute

INHALATION: Harmful by inhalation.

SKIN CONTACT: Can cause mild irritation, in concentrated form

EYE CONTACT: Risk of damage to eyes. Vapours can cause watering of the eyes.

INGESTION: Harmful if swallowed. There may be irritation to the gastro-intestinal tract with nausea and vomiting.

HUMAN HEALTH HAZARDS - CHRONIC: May cause sensitisation by skin contact. Kidney injury may occur.

ENVIRONMENTAL HAZARDS: Very toxic to aquatic organisms.

PHYSICAL AND CHEMICAL HAZARDS:

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SECTION 3: Composition/information On Ingredients

CHEMICAL DESCRIPTION: Quarternary Ammonium Compounds, Alcohol

HAZARDOUS INGREDIENTS:

CAS NO.	CHEMICAL NAME	WT %	SYMBOL	R-PHRASES
68391-01-5	n-Alkyl Dimethyl Benzyl Ammonium Chloride	6	T,N	23,25,50
68956-79-6	n-Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride	6	T,N	23,25,50
64-17-5	Ethanol	2.5		
7732-18-5	Water	Balance		

SECTION 4: First Aid Measures

4.1. Description of first aid measures

INHALATION: Remove to fresh air, rest, treat symptomatically. Obtain medical attention.

SKIN CONTACT: Remove contaminated clothing. Wash off affected area immediately with plenty of water. If skin irritation persists, obtain medical attention.

EYE CONTACT: Immediately gently irrigate with clean water for at least 15 minutes. Move eyeball and keep eyelids wide open and apart whilst irrigating. Obtain medical attention.

INGESTION: Do not induce vomiting without medical advice. If conscious wash out mouth and give 500ml of water to drink. Obtain medical attention.

ADDITIONAL INFORMATION: Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

SECTION 5: Firefighting measures

EXTINGUISHING MEDIA: Water spray, foam, dry powder, carbon dioxide.

FIRE AND EXPLOSION HAZARD: None

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING: In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and protective suit

SECTION 6: Accidental release measures

PERSONAL PRECAUTIONS: Instruct personnel to keep at a safe distance. Ensure adequate ventilation. Wear respirator if ventilation is inadequate. Wear chemical resistant apron, chemical splash goggles, impervious gloves and Wellington boots. A full slicker suit is recommended if gross exposure is possible.

ENVIRONMENTAL PRECAUTIONS:
concentrated form

Do not allow to enter sewers or water courses in

METHODS FOR CLEANING UP:

Contain and absorb with sand or vermiculite and mix well. Collect up and remove to a safe place until disposal. Wash site of spillage thoroughly with water. Assistance can be obtained from waste disposal companies.

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Section 7: Handling And Storage

HANDLING: Avoid contact with skin and eyes. Use with adequate ventilation. Do not breathe vapour. Avoid use of stainless steel, carbon steel, aluminium Zinc and their alloys.

STORAGE CONDITIONS: Keep container tightly closed in a cool, well-ventilated place. Containers require venting bungs to avoid over pressure. Storage for more than 6 months is not recommended. Keep at temperature not exceeding 35 °C.

CONSTRUCTION MATERIAL COMPATIBILITY: Compatible with:
Equipment for storage and application should be constructed from PVC, polyethylene, acrylic resin or PTFE.

SECTION 8: Exposure Controls / Personal Protection

OCCUPATIONAL EXPOSURE LIMITS

Quarternary Ammonium Compounds: Manufacturers Recommendation 2 mg/m³ (ceiling)

NATIONAL REGULATIONS SWEDEN

Wear respiratory equipment (Cartridge respirator with particle filter P and gas filter type A, class 2)

ENGINEERING MEASURES: Use general ventilation with local exhaust ventilation.

RESPIRATORY PROTECTION: An approved respirator must be worn if the occupational exposure limit is likely to be exceeded (filter-type A)

HAND PROTECTION: PVC gloves, Neoprene gloves, Nitrile gloves.

SKIN PROTECTION: Apron and boots

EYE PROTECTION: Chemical splash goggles.

HYGIENE RECOMMENDATIONS: Keep an eye wash fountain available. Keep a safety shower available.

Wash hands at breaks and at the end of the shift. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

SECTION 9: Physical And Chemical Properties

NOTE: These physical properties are typical values for this product FORM: Liquid

COLOUR: Colourless – Pale straw

ODOUR: Undetectable – faint almond

BOILING POINT: > 120 °C (Decomposes)

FLASH POINT: >93 °C PMCC

VAPOUR PRESSURE (20 °C): 4 x 10⁽⁻⁵⁾ mmHg

RELATIVE DENSITY: 0.97 - 1.00 g/cm³ (15.5 °C)

SOLUBILITY IN WATER: Complete

pH 6.5 – 8.5

FREEZING POINT: < -33 °C

Abbreviation: NE = not evaluated, NA = not applicable, NR = not relevant

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SECTION 10: Stability and reactivity

STABILITY: Stable under ambient conditions

CONDITIONS TO AVOID: Heat (Keep at temperature not exceeding 35 °C).

MATERIALS TO AVOID: Bases, Reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: High temperatures: Cyanogen bromide, Dibromoacetone nitrile, Hydrogen bromide, bromine and Oxides of nitrogen.

SECTION 11: Toxicological Information

Please refer to section 3 for hazards identification.

ACUTE TOXICITY DATA:

ACUTE LETHALITY VALUES:

The following results are for the active ingredients:

Oral (rat) LD 50 = 178 - 235 mg/kg.

The following results are for the product:

Oral (rat) LD 50 = 800 - 1600 mg/kg

Dermal (rabbit) LD 50 = > 2000 mg/kg.

product (Aerosol):

Inhalation (rat) 4h / LC 50 = 1.25 - 1.40 mg/l

PRIMARY (DRAIZE TEST) SKIN/EYE

skin: Can cause mild irritation if comes in contact with skin in concentrated form

eyes: Avoid contact with eyes in concentrated form

SENSITIZATION: May cause sensitisation by skin contact in concentrated form

CHRONIC TOXICITY DATA: No data available

SECTION 12: Ecological Information

PERSISTENCY AND DEGRADATION:

Chemical Oxygen Demand (COD) = appr. 25 mg/l (20 ppm)

Biological Oxygen Demand (BOD 5) = < 1 mg/l (20 ppm)

MOBILITY AND BIOACCUMULATION POTENTIAL:

This product has a low potential to bioconcentrate.

ECOTOXICOLOGICAL EFFECTS:

The following results are for the active ingredient:

LC 50/96H/Lepomis macrochirus (Bluegill Sunfish)= 1.3 mg/l.

LC 50/96H/Oncorhynchus Mykiss (Rainbow Trout)= 1.0 mg/l.

LC 50/96H/Cyprinodon variegatus (Sheepshead Minnow)= 1.4 mg/l.

LC 50/96H/Pimephales promelas (Fathead Minnow)= 1.4 mg/l.

LC 50/48H/Daphnia magna (Water Flea) = 1.2 mg/l.

ECOTOXICOLOGICAL EFFECTS: (cont...)

The following results are for the product:

LC 50/96H/Lepomis macrochirus (Bluegill Sunfish)= 8.9 mg/l

LC 50/96H/Oncorhynchus Mykiss (Rainbow Trout)= 3.6 mg/l

LC 50/96H/Cyprinodon variegatus (Sheepshead Minnow)= 7.5 mg/l

LC 50/96H/Mysidopsis bahia (Mysid Shrimp)= 4.2 mg/l

LC 50 /96H/Leuciscus idus (Gold Orfe)= 4.7 mg/l (OECD-203)

LC 50/24H/Daphnia magna (Water Flea) = appr. 21 mg/l

EC50/Pseudomonas Putida = >2.0 mg/l (DEV/DIN 38412, Teil 8)

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ADDITIONAL ECOLOGICAL DATA:

The following results are for the active ingredient:

Bobwhite Quail Acute Oral LD 50 = 150 - 166 mg/kg.

Mallard Duck Acute Oral LD 50 = 205 - 216 mg/kg.

AOX information: Product contains organic halogens, may contribute to AOX

SECTION 13: Disposal considerations

Via authorized contractor. If this product becomes a waste, the final user must define and assign the appropriate European Waste Catalogue code.

NATIONAL REGULATIONS UK: In accordance with the Environmental Protection (Duty of Care) Regulations 1991. Special Waste Regulations 1996 apply.

NATIONAL REGULATIONS AUSTRIA: Waste Code: 55220

SECTION 14: Transport Information

NOT REGULATED

NOT CONSIDERED HAZARDOUS FOR TRANSPORT PURPOSE

Marine pollutant: yes

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

CLASSIFICATION: HAZARD SYMBOL: Harmful



Xn, HARMFUL

Contains: n-Alkyl Dimethyl Benzyl Ammonium Chloride and n-Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride

RISK PHRASES: R20/22 Harmful by inhalation and if swallowed.

SAFETY PHRASES: S24 Avoid contact with skin. S23 Do not breathe vapour. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S28 After contact with skin, wash immediately with plenty of soap and water.

SECTION 16: Other Information

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text