

SECTION I: Identification of the Substance/Mixture and of the Company/Undertaking**1.1 Product Identifier**

Product name: Avatar PLX
EPA Registration Number: 94396-29

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

Recommended Uses: Insecticide
Uses Advised Against: Activities contrary to label recommendations

1.3 Details of the supplier of the safety data sheet

Company: Aquatrols Corporation of America
1273 Imperial Way
Paulsboro, NJ 08066

Website: www.aquatrols.com

Phone number: (856) 537-6003

Email: jyichye@aquatrols.com

1.4 Emergency telephone

Phone number: CHEMTREC - (800) 424-9300

SECTION II: Hazards Identification**2.1 Classification of the substance or mixture**

Product description: -

Classification according to 29 CFR 1910.1200

Acute Toxicity – Oral Category 4

Acute Toxicity – Dermal Category 4

Acute Toxicity – Inhalation (Vapors) Category 4

2.2 GHS label elements

Warning

Hazards Statements: HARMFUL IF SWALLOWED. Harmful in contact with skin. HARMFUL IF INHALED



Appearance fine white

Physical State powder

Odor rotten cabbage

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Do not get in eyes, on skin, or on clothing

Use only outdoors or in a well-ventilated area

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor if you feel unwell

Wash contaminated clothing before reuse

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

Call a POISON CENTER or doctor if you feel unwell

IF SWALLOWED: Call a Poison Center or doctor/physician if you feel unwell

Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

OTHER INFORMATION

- Toxic to aquatic life

- Toxic to aquatic life with long lasting effects

SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Classification	Concentration
Imidachloprid	138261-41-3	-	5%
Acephate	30560-19-1	-	50%
Sodium Aluminum Silicate	7631-86-9	-	22.7%

If CAS number is "proprietary", the specific chemical identity and percentage of composition have been withheld as a trade secret.

SECTION IV: FIRST AID MEASURES**4.1 Description of first aid measures**

Protection of First-aiders:	Use personal protective equipment.
Eye contact:	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin contact:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation:	Call a poison control center immediately. Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
Ingestion:	Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

4.2 Most important symptoms and effects, both acute and delayed.

Most Important Symptoms and Effects: no data available

Notes to physician Cholinesterase inhibitor. Atropine is antidotal. PAM may also be used in conjunction atropine but should not be used alone

4.3 Indication of any immediate medical attention and special treatment needed

Note to physician:

No information available.

SECTION V: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO₂). Aquatic. Foam.

Unsuitable extinguishing media: No data available.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: No information available

Hazardous combustion products: Carbon Dioxide (CO₂). Sulfur Oxides. Oxides of nitrogen. Oxides of phosphorous

Hazardous decomposition products: Heat and fire may result in thermal decomposition and the release of hydrogen chloride and oxides of nitrogen, sulfur and carbon.

5.3 Advice for firefighters

Special protective equipment: Use personal protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION VI: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures.

Avoid contact with skin and eyes. Provide adequate ventilation. Take precautionary measures against static discharges.

6.2 Environmental precautions

Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate groundwater system.

6.3 Methods and materials for containment and cleanup

Methods of Clean-up: Sweep up and shovel into suitable containers for disposal. Reduce dust spreading with water spray, collect rinsate.

SECTION VII: HANDLING AND STORAGE

7.1 Precautions for safe handling of the substance/mixture.

Handling: Keep out of reach of children. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid dust formation. Avoid breathing dust. Provide adequate ventilation. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Empty containers may contain hazardous residues.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep away from direct sunlight. Keep containers tightly closed in a cool, well-ventilated place.

Incompatible materials Alkaline.

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL
Sodium Aluminum Silicate 7631-86-9	-	(vacated) TWA: 6 mg/m ³ <1% Crystalline Silica TWA: 20 mppcf: (80)/(% SiO ₂) mg/m ³ TWA

Engineering controls Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems

Protective measures

Eye/face protection: Use eye protection to avoid eye contact. Where there is potential for eye contact have eye flushing equipment available. If splashes are likely to occur, wear Goggles and chemical resistant gloves.

Skin protection: Chemical resistant gloves. Chemical resistant protective clothing.

Respiratory protection: Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece

equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

General hygiene considerations

Do not eat, drink, or smoke when using this product. Wash hands and face before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection.

SECTION IX: CHEMICAL AND PHYSICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Powder highly hydroscopic
Color:	Fine, White
Odor:	Rotten Cabbage
pH:	No information available
Melting Point/Freezing point:	No data available
Boiling Point/Range	No information available
Flashpoint:	No information available
Evaporation rate:	No information available
Flammability:	No information available
Upper Flammability Limit:	No information available
Lower Flammability Limit:	No information available
Vapor pressure:	No information available
Relative density:	No information available
Specific Gravity :	No information available
Bulk density:	No information available
Solubility:	No information available
Partition n-octanol/water:	No information available
Autoignition temperature:	No information available
Thermal decomposition:	No information available
Viscosity:	No information available
Explosive properties:	No information available
Oxidizing properties:	No information available

9.2 Other information

Not applicable

SECTION X: STABILITY AND REACTIVITY**10.1 Reactivity**

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal circumstances

10.4 Conditions to avoid

Not known. Excess moisture.

10.5 Incompatible materials

Alkaline.

10.6 Hazardous decomposition products

Oxides of sulfur. Oxides of nitrogen. Oxides of phosphorus.

SECTION XI: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity:	LD50 = 1,750 mg/kg
Acute inhalation toxicity:	LC50 (4hr) = >5.127 mg/L
Acute dermal toxicity:	LD50 => 2000 mg/kg

Inhalation	May cause irritation of respiratory tract. May be harmful if inhaled.
Eye Contact	May cause slight irritation.
Skin Contact	Prolonged contact may cause redness and irritation.
Ingestion	MAY BE HARMFUL IF SWALLOWED

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available.
Mutagenic Effects	No data available.
Carcinogenicity	Acephate- High doses of Acephate technical have produced cancer in mice but there is no evidence that Acephate technical causes cancer in humans. EPA has classified Acephate as a Group C possible human carcinogen based on the cancer produced in female mice. This product is not listed as a carcinogen by the National Toxicology Program (NTP), the International Agency for Research of Cancer (IARC) or the Occupational Safety and Health Administration (OSHA). Imidacloprid (A.I.) was not considered carcinogenic in rats or mice in

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oncogenicity studies. Reproduction studies indicated that Imidacloprid is not a reproductive toxicant. Mutagenicity studies noted no mutagenetic or genotoxic effects in vitro and in vivo tests.

Chemical Name	ACGIH TLV	IARC	NTP	OSHA
Sodium Aluminum Silicate 7631-86-9	-	Group 3	-	-

Reproductive effects	Not Available.
STOT - Single Exposure	No data available
STOT – Repeated Exposure	No data available
Aspiration hazard	No data available

Numerical Measures of Toxicity

The following values are calculated based on chapter 3.1 of the GHS document

LD50 Oral	1,750 mg/kg
LD50 Dermal	> 2,000 mg/kg
LD50 Inhalation	> 20 mg/L (1 hr)

SECTION XII: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Acephate = Highly toxic to bees (1.2 ug/bee)

Toxic to birds.

Rainbow Trout LC50 (96 hr) => 1000 mg/L

Bluegill LC50 (96 hr) => 2000 mg/L

Mallard duck Oral LD50 = 350 mg/kg

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No information available

12.4 Other adverse effects

No data available

SECTION XIII: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Advice on disposal:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Contaminated containers: Refer to product label.

SECTION XIV: TRANSPORT INFORMATION**14.1 DOT** Not regulated.**14.2 ICAO** Not regulated.**14.3 IATA** Not regulated.**14.4 IMDG** Not regulated.**14.6 Special precautions for use**

No additional information available

14.6.1 Ground transport

No additional information available

14.6.2 Sea transport

No additional information available.

14.6.3 Air transport

No additional information available

14.7 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code

Not applicable.

SECTION XV: REGULATORY INFORMATION

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Signal Word: CAUTION

This pesticide is toxic to birds and wildlife and highly toxic to aquatic invertebrates. This product is highly toxic to bees. Keep out of Reach of Children. Harmful if absorbed through the skin. Causes moderate eye irritation.

International Inventories

USINV	Not Present
DSL/NDSL	Not Present
EINECS/	Not Present
ELINCS	Not Present
ENCS	Not Present
China	Not Present

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KECL	Not Present
PICCS	Not Present
AICS	Not Present
TSCA	Not Present

TSCA – United States toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS – European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS – Japan Existing and New Chemical Substances
IECSC – China Inventory of Existing Chemical Substances
KECL – Korean Existing and Evaluated Chemical Substances
PICCS – Philippines Inventory of Chemicals and Chemical Substances
AICCS – Australian Inventory of Chemical Substances

15.1 Safety legislation specific for the substance or mixture

15.1.1 EU-Regulations

No restrictions according to Annex XVII of REACH. Does not contain REACH candidate substances.

15.1.2 Federal regulations

SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

CERCLA Not applicable
RCRA Not applicable

15.2 Pesticide Information

State Right-to-Know Not applicable

15.3 International Regulations

U.S. EPA Label information
EPA Pesticide Registration Number 94396-29

SECTION XVI: OTHER INFORMATION

NFPA **HEALTH 1** **FLAMMABILITY 0** **INSTABILITY 0** **PHYSICAL HAZARD -**

More information**Abbreviations**

ADR:	European Agreement Concerning the International Carriage of Dangerous Goods by Road
IMDG:	International Maritime Code for Dangerous Goods
LC50:	Lethal Concentration 50%
LD50:	Lethal Dose 50%
EC50:	Effective Dose 50%
CLP:	Classification, Labelling and Packaging
CAS:	Chemical Abstract Service
RID:	Regulations concerning the International Carriage of Dangerous Goods by Rail
IATA-DGR:	International Air Transport Association Dangerous Goods Regulations
GHS:	Globally Harmonized System (GHS) of Labelling Chemical Products
REACH:	Registration, Evaluation, Authorization and Restriction of Chemical Products

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The information in this SDS, to our knowledge, is accurate at the data of publication. This information is intended as a guide for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a guarantee or indication of quality. The information relates only to the specific material and may not be valid in combination with other products or used in any process, unless specified in the text.