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**Section 1. Product and Company Identification**

**Product Name** Amitraz  
**Product ID** A5039  
**Chemical Name (Synonyms)** Aludex; Mitaban; Mitac; Taktic; Topline  
**Supplier** LKT Laboratories, Inc  
545 Phalen Blvd.  
St. Paul, MN 55130 USA  
Ph: 651-644-8424 Fax: 651-644-8357  
www.lktlabs.com - getinfo@lktlabs.com

**Emergency Phone #** 1-800-424-9300

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**Section 2. Hazards Identification**

**GHS Classification** Acute toxicity, Oral (Category 4), H302  
Skin sensitization (Category 1), H317  
Specific target organ toxicity - repeated exposure (Category 2), H373  
Acute aquatic toxicity (Category 1), H400  
Chronic aquatic toxicity (Category 1), H410

**GHS Label elements including precautionary statements**

**Pictogram**



**Signal word** Warning

**Hazard and precautionary statements**

**Hazard statements**

H302 - Harmful if swallowed.  
H317 - May cause an allergic skin reaction.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H410 - Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P260 - Do not breathe dust, fumes, gas, mist, vapors, spray.  
P264 - Wash skin thoroughly after handling.  
P270 - Do not eat, drink, or smoke when using this product.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
P314 - Get medical advice/ attention if you feel unwell.  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention.  
P363 - Wash contaminated clothing before reuse.  
P391 - Collect spillage.  
P501 - Dispose of contents/ container to an approved waste disposal plant.

**HMIS Classification** Health hazard: 2  
Chronic health hazard: 0  
Flammability: 0  
Physical hazard: 0

**NFPA Rating** Health hazard: 2  
Fire hazard: 0  
Reactivity hazard: 0

**Potential Health Effects** Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.  
Skin - May be harmful if absorbed through skin. May cause an allergic skin reaction. Skin sensitization.  
Eyes - May cause eye irritation.

Ingestion - Acute toxicity. Harmful if swallowed.  
Organs - May cause damage to organs through prolonged or repeated exposure.

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### Section 3. Composition/Information on Ingredients

<b>Substances</b>	Ingredient: Title Compound	Percent: 100	
<b>Formula</b>	C <sub>19</sub> H <sub>23</sub> N <sub>3</sub>	<b>Formula Wt.</b>	293.41
<b>CAS No.</b>	33089-61-1	<b>EC No.</b>	251-375-4

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### Section 4. First Aid Measures

<b>General advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>Eye Contact</b>	Flush eyes with water as a precaution.
<b>Skin Contact</b>	Wash off with soap and plenty of water. Consult a physician.
<b>Inhalation</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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### Section 5 . Firefighting Measures

<b>Flash Point</b>	Not available.
<b>Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
<b>Firefighting Procedures</b>	Wear self-contained breathing apparatus for firefighting if necessary.
<b>Unusual Fire Hazards</b>	Carbon oxides, nitrogen oxides (NOx).

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### Section 6. Accidental Release Measures

<b>Personal Precautions</b>	Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
<b>Methods and materials for containment and cleanup</b>	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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### Section 7. Handling and Storage

<b>Handling</b>	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.
<b>Storage Conditions</b>	Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: +4°C
<b>Hazardous Decomposition Products</b>	Not available.
<b>Other Remarks</b>	Storage class (TRGS 510): Noncombustible solids

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## Section 8. Exposure Controls/Personal Protection

### Personal protective equipment EXPOSURE CONTROLS

#### equipment

Contains no substances with occupational exposure limit values.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### PERSONAL PROTECTION

**Eye/face protection:** Safety glasses with side-shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body protection:** Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** For nuisance exposures, use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection, use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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## Section 9. Physical and Chemical Properties

<b>Physical State</b>	Solid.	<b>Color</b>	White to yellowish powder.
<b>Boiling Point</b>	> 200°C at 1,013 hPa (760 mmHg)	<b>Volatility</b>	Not available.
<b>Melting Point</b>	86-87°C	<b>Density</b>	Not available.
<b>Solubility</b>	Insoluble in water. Soluble in xylene and acetone.	<b>pH</b>	Not available.
<b>Flash Point</b>	Not available.	<b>Ignition temperature</b>	Not available.
<b>Lower explosion limit</b>	Not available.	<b>Autoignition temperature</b>	Not available.
<b>Upper explosion limit</b>	Not available.	<b>Vapor pressure</b>	Not available.
<b>Water solubility</b>	Insoluble in water.	<b>Odor</b>	Not available.
<b>Partition coefficient: n-octanol/water</b>	Not available.	<b>Odor Threshold</b>	Not available.
<b>Relative vapor density</b>	Not available.	<b>Evaporation rate</b>	Not available.

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## Section 10. Stability and Reactivity

**Stability** Stable under recommended storage conditions.

**Materials To Avoid** Strong oxidizing agents.

**Hazardous Decomposition Products** Not available.

**Possibility of hazardous reactions** Not available.

**Conditions to avoid** Not available.

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## Section 11. Toxicological Information

**Oral LD50** Rat - 400 mg/kg

**Skin corrosion/irritation** Not available.

**Inhalation LC50** Rat - 6 h - 65,000 mg/m3

**Serious eye damage/irritation** Not available.

**Dermal LD50** Rabbit - > 200 mg/kg

**Respiratory or skin sensitization** Not available.

**Other information on acute toxicity** Not available.

**Germ cell mutagenicity** Not available.

**Reproductive Toxicity** Rat - Oral  
Effects on Newborn: Delayed effects.

**Aspiration Hazard** Not available.

**Specific organ toxicity single exposure (GHS)** Not available.

**Synergistic effects** Not available.

**Specific organ toxicity repeated exposure (GHS)** May cause damage to organs through prolonged or repeated exposure.

**Additional Information** RTECS: ZF0480000  
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Teratogenicity** Not available.

**Signs and symptoms of exposure** Not available.

**Potential Health Effects** Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.  
Skin - May be harmful if absorbed through skin. May cause an allergic skin reaction. Skin sensitization.  
Eyes - May cause eye irritation.  
Ingestion - Acute toxicity. Harmful if swallowed.  
Organs - May cause damage to organs through prolonged or repeated exposure.

**Carcinogenicity** **IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.  
**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH  
**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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## Section 12. Ecological Information

**Toxicity** Toxicity to fish  
LC50 - Lepomis macrochirus (Bluegill) - 0.34 mg/l - 96.0 h  
Toxicity to daphnia and other aquatic invertebrates - EC50 - Daphnia magna (Water flea) - 3.4 mg/l - 48 h

**Mobility in soil** Not available.

**PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/not

conducted.

**Persistence and degradability** Not available.

**Other adverse effects** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

**Bioaccumulative potential** Not available.

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### Section 13. Disposal Considerations

**Waste Disposal** Dispose of material according to all federal, state, and local regulations.  
Offer material to a licensed, professional waste disposal company to dispose of as unused product. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

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### Section 14. Transport Information

**DOT (US)** Not dangerous goods.

**IATA** UN number: 3077 Class: 9 Packing Group: III  
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Amitraz)

**IMDG** UN number: 3077 Class: 9 Packing Group: III EMS No: F-A, S-F  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Amitraz)  
Marine pollutant: Yes

**Further Information**

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### Section 15. Regulatory Information

**Reach No.**

**SARA 302 Components** SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components** SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Components** Amitraz CAS #: 33089-61-1 Revision Date: 1993-04-24

**Massachusetts Right To Know Components** Amitraz CAS #: 33089-61-1 Revision Date: 1993-04-24

**Pennsylvania Right To Know Components** Amitraz CAS #: 33089-61-1 Revision Date: 1993-04-24

**New Jersey Right To Know Components** Amitraz CAS #: 33089-61-1 Revision Date: 1993-04-24

**California Prop 65 Components** WARNING: This product contains a chemical known to the State of California to cause birth defects, or any other reproductive harm.  
Amitraz CAS #: 33089-61-1 Revision Date: 2007-09-28

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### Section 16. Other Information

**Other information** The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.

**Updated** 5/30/2019

For emergencies in the USA, call  
CHEMTREC 800-424-9300