Material Safety Data Sheet

p-Arsanilic acid

sc-250626

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME
p-Arsanilic acid

STATEMENT OF HAZARDOUS NATURE

NFPA

SUPPLIER
Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, California 95060
800.457.3801 or 831.457.3800

EMERGENCY
ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255
(1-800-CHEMCALL) or call +613 9573 3112

SYNONYMS
C6-H8-As-N-O3, H2NC6H4AsO3H2, "p-aminobenzenearsonic acid", "4-aminobenzenearsonic acid", "aminophenylarsine acid", "p-aminophenylarsine acid", "p-aminophenylarsonic acid", "(4-aminophenyl)arsonic acid", "p-anilinearsonic acid", "4-arsanilic acid", "arsanilic acid-100", "arsonic acid, (4-aminophenyl)", As-101, "atoxylic acid", "benzenearsonic acid, p-amino-", Pro-Gen, "Progen 90", "Pro-Gen 227 Premix"

Section 2 - HAZARDS IDENTIFICATION

CHEMWATCH HAZARD RATINGS

<table>
<thead>
<tr>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability:</td>
<td>1</td>
</tr>
<tr>
<td>Toxicity:</td>
<td>3</td>
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<tr>
<td>Body Contact:</td>
<td>2</td>
</tr>
<tr>
<td>Reactivity:</td>
<td>1</td>
</tr>
<tr>
<td>Chronic:</td>
<td>4</td>
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</table>

CANADIAN WHMIS SYMBOLS

- Flammability: 1
- Toxicity: 3
- Body Contact: 2
- Reactivity: 1
- Chronic: 4
EMERGENCY OVERVIEW

RISK
Limited evidence of a carcinogenic effect.
Toxic by inhalation and if swallowed.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Skin contact may produce health damage*.
Cumulative effects may result following exposure*.
May produce discomfort of the respiratory system and skin*.
*(limited evidence).

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

SWALLOWED
- Toxic effects may result from the accidental ingestion of the material; animal experiments indicate that ingestion of less than 40 gram may be fatal or may produce serious damage to the health of the individual.
- Symptoms of acute poisoning by arsenic ingestion, which develop within 4 hours include epigastric pain, vomiting and watery diarrhoea, nausea and vomiting.
Blood may appear in vomitus and stools.

EYE
- Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Slight abrasive damage may also result.

SKIN
- Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.
- There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.
- Open cuts, abraded or irritated skin should not be exposed to this material.
- Arsenic can cause skin irritation characterised by eczema, scaling, sensitisation as well as discoloration and thickening of the palms and soles.
- Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

INHALED
- Inhalation of dusts, generated by the material, during the course of normal handling, may produce toxic effects.
- The body's response to such irritation can cause further lung damage.
- Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled.
If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.
- Inhaling materials containing arsenic can cause severe irritation to the nose, throat and lungs.
Prolonged exposure can cause severe structural damage to the nose.

CHRONIC HEALTH EFFECTS
- There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment.
Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis; caused by particles less than 0.5 micron penetrating and remaining in the lung. Prime symptom is breathlessness; lung shadows show on X-ray.
Long-term exposure to arsenic and its inorganic salts may produce loss of appetite, nausea and vomiting, low fever, persistent headache, pallor, weakness and phlegm. Skin effects include redness, eczema, pigmentation, diffuse hair loss, scaling of the palms and soles, sloughing, brittle nails, white lines or bands on the nails, loss of hair and nails, and localised swelling. Kidney damage can occur and liver enlargement with jaundice may develop into cirrhosis (hardening of the liver), with fluid in the abdomen. Nervous system effects involving the extremities (numbness, tingling, burning pain, weakness, inco-ordination) may also occur. Arsenic is well-known to cause cancer in humans.
Most arylamines are very toxic to the blood cell-forming system, and they produce methaemoglobinemia in humans. High doses congest the spleen and then cause formation of sarcomas (a type of malignant tumour). Single ring aromatic amines have relatively weak cancer-causing properties, and in animal testing are only harmful in large doses. The polycyclic aromatic amines show a wide range of cancer-causing activity, partly dependent on the position where benzene rings are substituted and the nature of the substituent. Most monocyclic arylamines cause deposition of iron-containing proteins in tissues and organs. They cause genetic toxicity and acute toxic effects, but it is not clear whether this is influenced by iron release during the formation of methaemoglobin or red blood cell turnover and the stress associated with these processes. In any case, toxic tissue changes and scarring occur before the development of tumours in the spleen, liver and kidneys.
Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>CAS RN</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>p-arsanilic acid</td>
<td>98-50-0</td>
<td>&gt;98</td>
</tr>
</tbody>
</table>

Section 4 - FIRST AID MEASURES

SWALLOWED
- Give a slurry of activated charcoal in water to drink. NEVER GIVE AN UNCONSCIOUS PATIENT WATER TO DRINK.
- At least 3 tablespoons in a glass of water should be given.
- Although induction of vomiting may be recommended (IN CONSCIOUS PERSONS ONLY), such a first aid measure is dissuaded due to the risk of aspiration of stomach contents. (i) It is better to take the patient to a doctor who can decide on the necessity and method of emptying the stomach. (ii) Special circumstances may however exist; these include non- availability of charcoal and the ready availability of the doctor.

NOTE: If vomiting is induced, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

EYE
If this product comes in contact with the eyes:
- Immediately hold eyelids apart and flush the eye continuously with running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
- Transport to hospital or doctor without delay.

SKIN
If skin contact occurs:
- Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

INHALED
- If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.

NOTES TO PHYSICIAN
- For acute or short term repeated exposures to arsenic, soluble compounds: Treat as per arsenic poisoning.
- Acute skin lesions such as contact dermatitis usually do not require other treatment than removal from exposure.
- If more severe symptoms of the respiratory system, the skin or the gastro-intestinal tract occur, British Anti-Lewisite (BAL, dimercaprol) may be given. Prompt administration in such cases is vital; to obtain maximum benefit such treatment should be administered within 4 hours of poisoning.
- In addition, general treatment such as prevention of further absorption from the gastro-intestinal tract are mandatory.
- General supportive therapy such as maintenance of respiration and circulation, maintenance of water and electrolyte balance and control of nervous system effects, as well as elimination of absorbed poison through dialysis and exchange transfusion, may be used if feasible.

* Preplacement and periodic medical examinations are essential for workers exposed to arsenic on a regular basis. Preplacement physical examinations should give particular attention to allergic and chronic skin lesions, eye disease, psoriasis, chronic eczematous dermatitis, hyperpigmentation of the skin, keratosis and warts, baseline weight, baseline blood and haemoglobin counts, baseline urinary arsenic determinations.

Annual physical examinations should give attention to general health, weight, skin condition, and any evidence of excessive exposure or absorption of arsenic.

Section 5 - FIRE FIGHTING MEASURES

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<th>Property</th>
<th>Description</th>
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<td>Upper Explosive Limit (%)</td>
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<tr>
<td>Specific Gravity (water=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower Explosive Limit (%)</td>
<td>Not available</td>
</tr>
</tbody>
</table>

EXTINGUISHING MEDIA
- Foam.
• Dry chemical powder.
• BCF (where regulations permit).
• Carbon dioxide.

**FIRE FIGHTING**
• Alert Fire Brigade and tell them location and nature of hazard.
• Wear full body protective clothing with breathing apparatus.
• Prevent, by any means available, spillage from entering drains or water course.
• Use fire fighting procedures suitable for surrounding area.

**GENERAL FIRE HAZARDS/HAZARDOUS COMBUSTIBLE PRODUCTS**
• Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions.
• Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited - particles exceeding this limit will generally not form flammable dust clouds.; once initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.
• In the same way as gases and vapours, dusts in the form of a cloud are only ignitable over a range of concentrations; in principle, the concepts of lower explosive limit (LEL) and upper explosive limit (UEL) are applicable to dust clouds but only the LEL is of practical use; this is because of the inherent difficulty of achieving homogeneous dust clouds at high temperatures (for dusts the LEL is often called the "Minimum Explosible Concentration", MEC)
• A dust explosion may release of large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosive force capable of damaging plant and buildings and injuring people.
  Combustion products include: carbon monoxide (CO), carbon dioxide (CO2), nitrogen oxides (NOx), metal oxides, arsenic compounds, other pyrolysis products typical of burning organic material.
  May emit poisonous fumes.

**FIRE INCOMPATIBILITY**
• Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

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**Section 6 - ACCIDENTAL RELEASE MEASURES**

**MINOR SPILLS**
• Clean up waste regularly and abnormal spills immediately.
• Avoid breathing dust and contact with skin and eyes.
• Wear protective clothing, gloves, safety glasses and dust respirator.
• Use dry clean up procedures and avoid generating dust.

**MAJOR SPILLS**
• Clear area of personnel and move upwind.
• Alert Fire Brigade and tell them location and nature of hazard.
• Wear full body protective clothing with breathing apparatus.
• Prevent, by any means available, spillage from entering drains or water course.

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**Section 7 - HANDLING AND STORAGE**

**PROCEDURE FOR HANDLING**
• Avoid all personal contact, including inhalation.
• Wear protective clothing when risk of exposure occurs.
• Use in a well-ventilated area.
• Prevent concentration in hollows and sumps.

Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source.
• Do NOT cut, drill, grind or weld such containers.
• In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit.

**RECOMMENDED STORAGE METHODS**
• Lined metal can, lined metal pail/ can.
• Plastic pail.
• Polyliner drum.
• Packing as recommended by manufacturer.

For low viscosity materials
• Drums and jerricans must be of the non-removable head type.
• Where a can is to be used as an inner package, the can must have a screwed enclosure.

<

**STORAGE REQUIREMENTS**
Store in original containers.
Keep containers securely sealed.
Store in a cool, dry, well-ventilated area.
Store away from incompatible materials and foodstuff containers.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS
The following materials had no OELs on our records
- p-arsanilic acid: CAS:98-50-0

PERSONAL PROTECTION

RESPIRATOR

EYE
- Safety glasses with side shields.
- Chemical goggles.
  Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

HANDS/FEET
- Wear chemical protective gloves, eg. PVC.
- Wear safety footwear or safety gumboots, eg. Rubber
  Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:
  - frequency and duration of contact,
  - chemical resistance of glove material,
  - glove thickness and
dexterity

OTHER
- Overalls.
- Eyewash unit.
- Barrier cream.
- Skin cleansing cream.

ENGINEERING CONTROLS
Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.
The basic types of engineering controls are:
- Process controls which involve changing the way a job activity or process is done to reduce the risk.
- Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL PROPERTIES
Solid.
Does not mix with water.

<table>
<thead>
<tr>
<th>State</th>
<th>Divided solid</th>
<th>Molecular Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>217.05</td>
</tr>
</tbody>
</table>
Melting Range (°F) | >572 | Viscosity | Not Applicable
---|---|---|---
Boiling Range (°F) | Not available | Solubility in water (g/L) | Partly miscible
Flash Point (°F) | Not available | pH (1% solution) | Not available
Decomposition Temp (°F) | Not Available | pH (as supplied) | Not applicable
Autoignition Temp (°F) | Not available | Vapour Pressure (mmHG) | Negligible
Upper Explosive Limit (%) | Not available | Specific Gravity (water=1) | Not available
Lower Explosive Limit (%) | Not available | Relative Vapour Density (air=1) | Not applicable
Volatile Component (%vol) | Negligible | Evaporation Rate | Not applicable

**APPEARANCE**
Powder; does not mix well with cold water. Soluble in hot water, amyl alcohol, solutions of alkali carbonates, concentrated mineral acids.

**Section 10 - CHEMICAL STABILITY**

**CONDITIONS CONTRIBUTING TO INSTABILITY**
- Presence of incompatible materials.
- Product is considered stable.
- Hazardous polymerisation will not occur.

**STORAGE INCOMPATIBILITY**
- Contact with acids produces toxic fumes
- Arsenic, an extremely poisonous (lethal) gas with a garlic odour can be generated when the material reacts with acids, alkalis or water in the presence of an active metal (zinc, aluminium, magnesium, sodium, iron etc.).
- Many amines (aromatic amines such as aniline, N-ethylaniline, o-toluidine, xylidine etc. and their mixtures) are hypergolic (ignite spontaneously) with red fuming nitric acid. When the amines are dissolved in triethylamine, ignition occurs at -60 deg. C. or less.
- Various metal oxides and their salts may promote ignition of amine-red fuming nitric acid systems. Soluble materials such as copper(I) oxide, ammonium metavanadate are effective; insoluble materials such as copper(II) oxide, iron(II) oxide, potassium dichromate are also effective.
- Avoid oxidising agents, acids, acid chlorides, acid anhydrides, chloroformates.
- Avoid strong acids, bases.

For incompatible materials - refer to Section 7 - Handling and Storage.

**Section 11 - TOXICOLOGICAL INFORMATION**

**p-arsanilic acid**

**TOXICITY AND IRRITATION**
- Arsenic is a potent poison which exists in several forms. The inorganic form is more toxic than the organic. Organic arsenic can cause skin lesions, vomiting, diarrhoea, movement disorders, seizure and death from inhibition of breathing in experimental animals. Damage to genetic material in cells has been recorded. However, reports of cancer are rare.
- Arsenic compounds are classified by the European Union as toxic by inhalation and ingestion and toxic to aquatic life and long lasting in the environment. IARC classify arsenic in drinking water as a confirmed human carcinogen (IARC 1).

**CARCINOGEN**

<table>
<thead>
<tr>
<th>ARSENIC (ORGANIC OR INORGANIC COMPOUNDS)</th>
<th>US Environmental Defense Scorecard Suspected Carcinogens</th>
<th>Reference(s)</th>
<th>P65-MC</th>
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<tr>
<td>ARSENIC COMPOUNDS</td>
<td>US Environmental Defense Scorecard Suspected Carcinogens</td>
<td>Reference(s)</td>
<td>HAZMAP, IARC</td>
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<td>p-arsanilic acid</td>
<td>US - Maine Chemicals of High Concern List</td>
<td>Carcinogen</td>
<td>CA Prop 65; IARC; IRIS; NTP 11th ROC</td>
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</table>

**Section 12 - ECOLOGICAL INFORMATION**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- This material and its container must be disposed of as hazardous waste.
- Avoid release to the environment.
- Refer to special instructions/ safety data sheets.
### Ecotoxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Persistence: Water/Soil</th>
<th>Persistence: Air</th>
<th>Bioaccumulation</th>
<th>Mobility</th>
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<tbody>
<tr>
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<td>HIGH</td>
<td>No Data Available</td>
<td>LOW</td>
<td>MED</td>
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### Section 13 - DISPOSAL CONSIDERATIONS

**US EPA Waste Number & Descriptions**

A. **General Product Information**
   - Toxicity characteristic: use EPA hazardous waste number D004 (waste code E) if this substance, in a solid waste, produces an extract containing greater than 5 mg/L of arsenic.

**Disposal Instructions**

- All waste must be handled in accordance with local, state and federal regulations.
- Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.
- Otherwise:
  - If container cannot be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
  - Where possible retain label warnings and MSDS and observe all notices pertaining to the product.

Legislation addressing waste disposal requirements may differ by country, state and/or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- Reuse
- Recycling
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. In most instances the supplier of the material should be consulted.

- DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licenced to accept chemical and/or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material)
- Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

### Section 14 - TRANSPORTATION INFORMATION

**DOT:**

- **Symbols:** None
- **Hazard class or Division:** 6.1
- **Identification Numbers:** UN3465
- **PG:** III
- **Label Codes:** 6.1
- **Special provisions:** IB8, IP3, T1, TP33
- **Packaging: Exceptions:** 153
- **Packaging: Non-bulk:** 213
- **Quantity limitations:** 100 kg
- **Passenger aircraft/rail:**
- **Cargo aircraft only:** 200 kg
- **Vessel stowage: Location:** A
- **Vessel stowage: Other:** None
Hazardous materials descriptions and proper shipping names:
Organoarsenic compound, solid, n.o.s.

**Air Transport IATA:**

<table>
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<th>ICAO/IATA Class:</th>
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<td><strong>Cargo Only</strong></td>
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<td>Packing Instructions:</td>
<td>677</td>
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<td>Maximum Qty/Pack:</td>
<td>10 kg</td>
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Shipping name: ORGANOARSENIC COMPOUND, SOLID, N.O.S. (contains p-arsanilic acid)

**Maritime Transport IMDG:**

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<th>IMDG Subrisk:</th>
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<td>EMS Number:</td>
<td>F-A,S-A</td>
<td>Special provisions:</td>
<td>223 274</td>
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<tr>
<td>Limited Quantities:</td>
<td>5 kg</td>
<td>Marine Pollutant:</td>
<td>Yes</td>
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</table>

Shipping name: ORGANOARSENIC COMPOUND, SOLID, N.O.S. (contains p-arsanilic acid)

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**Section 15 - REGULATORY INFORMATION**

p-arsanilic acid (CAS: 98-50-0) is found on the following regulatory lists:

- Canada - Alberta Substances and processes requiring a code of practice
- Canada - Ontario Occupational Exposure Limits
- Canada - Saskatchewan Occupational Health and Safety Regulations - Designated Chemical Substances
- Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances
- Canada List of Prohibited and Restricted Cosmetic Ingredients (The Cosmetic Ingredient "Hotlist")
- Canada National Pollutant Release Inventory (NPRIs)
- Canada Non-Domestic Substances List (NDSL)
- International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs
- US - California Air Toxics "Hot Spots" List (Assembly Bill 2588) Substances for Which Emissions Must Be Quantified
- US - California Environmental Health Standards for the Management of Hazardous Waste - List of Inorganic Persistent and Bioaccumulative Toxic Substances and Their STLC & TTLC Values
- US - California Occupational Safety and Health Regulations (CAL/OSHA) - Hazardous Substances List
- US - California Permissible Exposure Limits for Chemical Contaminants
- US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens
- US - Connecticut Hazardous Air Pollutants
- US - Louisiana Minimum Emission Rates Toxic Air Pollutants
- US - Louisiana Toxic Air Pollutant Ambient Air Standards
- US - Maine Chemicals of High Concern List
- US - Massachusetts Oil & Hazardous Material List
- US - Minnesota Hazardous Substance List
- US - New Jersey Right to Know Hazardous Substances (English)
- US - Oregon Permissible Exposure Limits (Z-1)
- US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
- US CWA (Clean Water Act) - Priority Pollutants
- US CWA (Clean Water Act) - Toxic Pollutants
- US EPCRA Section 313 Chemical List
- US List of Lists - Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112(r) of the Clean Air Act
- US NIOSH Recommended Exposure Limits (RELs)
- US RCRA (Resource Conservation & Recovery Act) - Appendix IX to Part 264 Ground-Water Monitoring List 1
- US RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261
- US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

**Section 16 - OTHER INFORMATION**

**LIMITED EVIDENCE**

- Skin contact may produce health damage.
- Cumulative effects may result following exposure.
- May produce discomfort of the respiratory system and skin.
Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references. A list of reference resources used to assist the committee may be found at: www.chemwatch.net/references.

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

For detailed advice on Personal Protective Equipment, refer to the following U.S. Regulations and Standards:

OSHA Standards - 29 CFR:
- 1910.132 - Personal Protective Equipment - General requirements
- 1910.133 - Eye and face protection
- 1910.134 - Respiratory Protection
- 1910.136 - Occupational foot protection
- 1910.138 - Hand Protection

Eye and face protection - ANSI Z87.1
Foot protection - ANSI Z41

Respirators must be NIOSH approved.

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