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Material Safety Data Sheet

Altman's Acid Fuchsin MSDS

Section 1: Chemical Product and Company Identification

Product Name: Altman's Acid Fuchsin

Catalog Codes: SLA4252

CAS#: Mixture.

RTECS: Not applicable.

TSCA: TSCA 8(b) inventory: Water; Acid fuchsin; Aniline

CI#: Not applicable.

Synonym: Altman's Acid Fuchsin Solution

Chemical Name: Not applicable.

Chemical Formula: Not applicable.

Contact Information:

Sciencelab.com, Inc.

14025 Smith Rd.

Houston, Texas 77396

US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:

1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Water	7732-18-5	76.5
Acid fuchsin	3244-88-0	20
Aniline	62-53-3	3.5

Toxicological Data on Ingredients: Aniline: ORAL (LD50): Acute: 250 mg/kg [Rat.]. 464 mg/kg [Mouse]. DERMAL (LD50): Acute: 820 mg/kg [Rabbit.]. 1400 mg/kg [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:

Hazardous in case of skin contact (permeator). Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH [Aniline]. Classified 3 (Not classifiable for human.) by IARC [Aniline]. **MUTAGENIC EFFECTS:** Mutagenic for mammalian somatic cells. [Aniline]. Mutagenic for bacteria and/ or yeast. [Aniline]. **TERATOGENIC EFFECTS:** Not available. **DEVELOPMENTAL TOXICITY:** Not available. The substance may be toxic to blood, kidneys, liver, bladder, spleen, cardiovascular system, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention. Finish by rinsing thoroughly with running water to avoid a possible infection.

Skin Contact:

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances: Non-explosive in presence of open flames and sparks, of shocks.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards:

Spontaneously explosive reactions occur with benzenediazonium -2-carboxylate, dibenzoyl peroxide, fluorine nitrate, nitrosyl perchlorate, red fuming nitric acid, peroxodisulfuric acid, and tetranitromethane. Addition of a drop of aniline to 1 gram of dibenzoyl peroxide leads to mildly explosive decomposition after a short delay. Addition of aniline to nitromethane renders it susceptible to initiation by a detonator. Aniline reacts with perchloric acid, and then formaldehyde to produce explosive and combustible condensed resin. (Aniline)

Section 6: Accidental Release Measures

Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage**Precautions:**

Keep locked up.. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with skin. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

Aniline TWA: 7.6 (mg/m³) from ACGIH (TLV) [United States] SKIN TWA: 2 (ppm) from ACGIH (TLV) [United States] SKIN TWA: 2 [Canada] TWA: 7.6 (mg/m³) [Canada] TWA: 5 (ppm) from OSHA (PEL) [United States] TWA: 19 (mg/m³) from OSHA (PEL) [United States] TWA: 1 (ppm) [United Kingdom (UK)] TWA: 4 (mg/m³) [United Kingdom (UK)] Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Not available.

Taste: Not available.

Molecular Weight: Not applicable.

Color: Not available.

pH (1% soln/water): Basic.

Boiling Point: The lowest known value is 100°C (212°F) (Water). Weighted average: 103.68°C (218.6°F)

Melting Point: May start to solidify at -6°C (21.2°F) based on data for: Aniline.

Critical Temperature: The lowest known value is 425.6°C (798.1°F) (Aniline).

Specific Gravity: Weighted average: 1 (Water = 1)

Vapor Pressure: The highest known value is 2.3 kPa (@ 20°C) (Water). Weighted average: 2.2 kPa (@ 20°C)

Vapor Density: The highest known value is 3.22 (Air = 1) (Aniline). Weighted average: 0.73 (Air = 1)

Volatility: Not available.

Odor Threshold: The highest known value is 2.4 ppm (Aniline)

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, methanol, diethyl ether.

Solubility:

Easily soluble in cold water, hot water. Soluble in methanol, diethyl ether.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials

Incompatibility with various substances: Slightly reactive to reactive with oxidizing agents, metals, acids, alkalis.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:

Air and light sensitive. May darken on exposure to light or air. Incompatible with strong oxidizing agents, strong acids, bases, aluminum, fluorine, formaldehyde, iron, nitric acid, silver perchlorate, sodium peroxide, sulfuric acid, zinc, hydrogen peroxide, benzenediazonium-2-carboxylate, boron trichloride, tetranitromethane, trichloronitromethane, diisopropyl peroxydicarbonate, hexachloromelamine, peroxomonosulfuric acid, albumin, iron salts, perchloric acid, nitrobenzene, alkalis, potassium peroxide, glycerine, fuming nitric acid, peroxydisulfuric acid, N-chloro compounds, N-bromides (e.g. n-bromosuccinimide), nitrosyl fluoride, toluene diisocyanate, performic acid. Formaldehyde + aniline reacts violently with 90% performic acid, acetic anhydride. Aniline + trichloronitromethane can produce a violent reaction. Aniline can react vigorously with oxidizing materials. Violent reactions can occur with peroxyformic acid, diisopropyl peroxydicarbonate, fluorine, trichloronitromethane, chlorosulfonic acid, peroxydisulfuric acid, FO₃Cl, nitric acid + N₂O₄ + sulfuric acid, b-propiolactone, AgClO₄. (Aniline)

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact.

Toxicity to Animals:

Acute oral toxicity (LD₅₀): 250 mg/kg [Rat.]. (Aniline). Acute dermal toxicity (LD₅₀): 820 mg/kg [Rabbit.]. (Aniline).

Chronic Effects on Humans:

CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH [Aniline]. Classified 3 (Not classifiable for human.) by IARC [Aniline]. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. [Aniline]. Mutagenic for bacteria and/or yeast. [Aniline]. Contains material which may cause damage to the following organs: blood, kidneys, liver, bladder, spleen, cardiovascular system, central nervous system (CNS).

Other Toxic Effects on Humans:

Hazardous in case of skin contact (permeator). Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

May affect genetic materials. May cause adverse reproductive effects. It may cause cancer. However, IARC has found inadequate evidence in humans. Human: passes through the placenta. (Aniline)

Special Remarks on other Toxic Effects on Humans:

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations:

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Aniline California prop. 65 (no significant risk level): Aniline: 0.1 mg/day (value) California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Aniline Connecticut hazardous material survey.: Aniline Illinois toxic substances disclosure to employee act: Aniline Illinois chemical safety act: Aniline New York release reporting list: Aniline Rhode Island RTK hazardous substances: Aniline Pennsylvania RTK: Aniline Minnesota: Aniline Massachusetts RTK: Aniline Massachusetts spill list: Aniline New Jersey: Aniline New Jersey spill list: Aniline Louisiana RTK reporting list: Aniline Louisiana spill reporting: Aniline TSCA 8(b) inventory: Water; Acid fuchsin; Aniline TSCA 8(a) IUR: Aniline TSCA 8(d) H and S data reporting: Aniline: 10/4/92 SARA 302/304/311/312 extremely hazardous substances: Aniline SARA 313 toxic chemical notification and release reporting: Aniline 3.5% CERCLA: Hazardous substances.: Aniline: 5000 lbs. (2268 kg);

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R36/38- Irritating to eyes and skin. R40- Possible risks of irreversible effects. S2- Keep out of the reach of children. S36/37- Wear suitable protective clothing and gloves. S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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