

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

| | |
|--|---|
| Product Name Safetex Cytology Fixative (Spray) | Product Code PK6000 |
| Manufacturer's Name Andwin Scientific | Emergency Telephone Number 800-255-3924 |
| Address (Number, Street, City, State, and ZIP Code) 6636 Variel Ave. Canoga Park, CA 91303 | Telephone Number for Information 800-497-3113 Date Prepared 7/3/2002 Signature of Preparer (optional) |

Section 2. Composition/Information on Ingredients

| Component | CAS # | OSHA PEL | ACGIH TLV | Other Limits Recommended | Percent |
|-------------------|---------|----------|-----------|--------------------------|---------|
| Isopropyl Alcohol | 67-63-0 | 400 ppm | 400 ppm | 500 ppm * | |

50% ODOR RECOGNITION THRESHOLD IS 7.5 PPM

*OSHA PEL/STEL

Section 3. Hazards Identification

Emergency Overview

Early to moderate CNS (central nervous system) depression may be evidenced by giddiness, headache, dizziness and nausea; in extreme cases, unconsciousness, respiratory depression and death may occur. Liver damage may be evidenced by loss of appetite, jaundice (yellow skin color) and sometimes pain in the upper abdomen on the right side.

Potential Health Effects

Eye Moderately irritating to eyes.

Skin Mildly irritating to skin.

Ingestion Irritating to the gastrointestinal tract, causing abdominal pain and vomiting, sometimes bloody. Ingestion may cause central nervous system depression, low blood pressure, rapid heart beat and liver damage.

Inhalation May cause mild irritation to the nose, throat and respiratory tract and may result in central nervous system depression.

Chronic/Carcinogenicity

Teratology

Reproduction

Mutagenicity

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Section 4. First Aid Measures

Eye Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. GET MEDICAL ATTENTION.

Skin Flush with water. If irritation occurs, get medical attention.

Ingestion Do not give liquids if victim is unconscious or very drowsy.

Otherwise, give no more than 2 glasses of water and induce vomiting by giving 30 cc (2 tablespoons) of Syrup of Ipecac. If Ipecac is unavailable, give 2 glasses of water and induce vomiting by touching finger to back of victim's throat. Keep victim's head below hips while vomiting. GET MEDICAL ATTENTION.

Inhalation Remove victim to fresh air and provide oxygen if breathing is difficult. GET MEDICAL ATTENTION.

All Other Means of Exposure CONTACT POISON CONTROL CENTER IMMEDIATELY. Be prepared to provide hazardous ingredient information from Section 2.

| | | | | |
|----------------------|-------------|-------|--------|-----|
| Flammable Properties | Flash Point | 53° F | Method | TCC |
|----------------------|-------------|-------|--------|-----|

| | | | | |
|------------------|-------|---|-------|----|
| Flammable Limits | Lower | 2 | Upper | 12 |
|------------------|-------|---|-------|----|

Autoignition Temperature

Hazardous Combustion Products Carbon Monoxide and Unidentified organic compounds may be formed during combustion.

Extinguishing Media Use water fog, 'alcohol' foam, dry chemical or CO2

Fire Fighting Instructions Firefighters should wear self-contained breathing apparatus in the positive pressure mode with a full face piece when there is a possibility of exposure to smoke, fumes or hazardous decomposition products.

Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container.

Section 6. Accidental Release Measures

Small Spill Take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal.

Large Spill Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak only if safe to do so. Dike and contain. If vapor cloud forms, water fog may be used to suppress; contain run-off. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with and absorbent such as clay, sand or other suitable material. Place in non-leaking containers for proper disposal. Flush area with water to remove trace residue. Dispose of flush solutions as above.

WARNING: Flammable. Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking.

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Section 7. Handling and Storage

If exposure may or does exceed occupational exposure limits

(see Section 1), use NIOSH-approved respirator to prevent overexposure. In accordance with 29 CFR 1910.134, use either an atmosphere-supplying respirator or an air purifying respirator for organic vapors. Avoid contact with eyes. Wear chemical safety goggles if there is likelihood of contact with eyes. Avoid prolonged or repeated contact with skin. Wear chemical resistant gloves and other clothing as required to minimize contact. Test data from published literature and/or glove and clothing manufactures indicate the best protection is provided in Nitrile, Neoprene and natural rubber gloves.

Use explosion proof ventilation as required to control vapor concentrations.

Eye wash fountains and safety showers should be available for emergency use.

Wash with soap and water before eating, drinking, smoking or using toilet facilities.

Launder contaminated clothing before reuse. Air dry clothing in a well ventilated area before laundering.

Keep liquid and vapor away from heat, sparks and flame.

Surfaces that are sufficiently hot may ignite liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes, and turn off sources of ignition prior to use and until all vapors are gone.

Vapors may accumulate and travel to ignition sources distant from the handling site; flash-fire can result. Keep containers closed when not in use. Use with adequate ventilation. Containers, even this that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers. Do not pressurize drum containers to empty. Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground transfer containers and equipment.

Do not store or handle in aluminum equipment at temperatures above 120° F

Section 8. Exposure Controls, Personal Protection

Engineering Controls Use explosion proof ventilation as required to control vapor concentrations.

Respiratory Protection If exposure may or does exceed occupational exposure limits (see Section 1), use NIOSH-approved respirator to prevent overexposure. In accordance with 29 CFR 1910.134, use either an atmosphere-supplying respirator or an air purifying respirator for organic vapors.

Skin Protection Avoid prolonged or repeated contact with skin. Wear chemical resistant gloves and other clothing required to minimize contact.

Test data from published literature and/or glove and clothing manufactures indicate the best protection is provided in Nitrile, Neoprene and natural rubber gloves.

Eye Protection Avoid contact with eyes. Wear chemical goggles if there is likelihood of contact with eyes.

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Permissible Exposure Levels (see also Section 2)

| Component | CAS # | OSHA PEL | ACGIH TLV | Other Limits Recommended | Percent |
|---|---------|----------|----------------|--------------------------|---------|
| Isopropyl Alcohol | 67-63-0 | 400 ppm | 400 ppm | 500 ppm * | |
| 50% ODOR RECOGNITION THRESHOLD IS 7.5 PPM | | | *OSHA PEL/STEL | | |

Section 9. Physical and Chemical Properties

| | | | |
|-------------------------|----------------------|--------------------------------------|--------|
| Boiling Point | 180° F | Specific Gravity (H2O = 1) | 0.792 |
| Vapor Pressure (mm Hg) | 32 @ 68°F | Melting Point | N/A |
| Vapor Density (AIR = 1) | 2.1 | Evaporation rate (Butyl Acetate = 1) | 1.4 |
| Solubility in Water | Complete | Physical State | Liquid |
| Appearance and Odor | colorless, mild odor | Other | |

Section 10. Stability and Reactivity

| | |
|----------------------------------|--|
| Chemical Stability | Stable |
| Incompatibility | Avoid heat, sparks, flame and contact with strong oxidizing agents. Do not store or handle in aluminum equipment at temperatures above 120° F. |
| Hazardous Decomposition Products | Carbon monoxide and unidentified organic compounds may be formed during combustion. |
| Hazardous Polymerization | Will not occur. |

Section 11. Toxicological Information

Section 12. Ecological Information

Keep out of surface waters, sewers and waterways entering or leading to surface waters. Notify authorities if any exposure to the general public or environment occurs or is likely to occur.

Section 13. Disposal Considerations

If this product becomes a waste material, it would be ignitable, hazardous waste. Refer to latest EPA or state regulations regarding proper disposal.

Section 14. Transport Information

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Section 15. Regulatory Information

Section 16. Other Information

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration to its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and STATLAB MEDICAL PRODUCTS, INC. assumes no legal responsibility or liability whatsoever resulting from its use.