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Material Safety Data Sheet

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10/20/00

ALBUTEROL INHALER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Warrick Pharmaceuticals
1095 Morris Avneue
Union, NJ 07083

COMPANY CONTACT: MSDS HelpLine (US & Canada)
TELEPHONE NUMBER: (800)770-8878

EMERGENCY TELEPHONE NUMBER
Chemtrec (800)424-9300

PRODUCT NAME: Albuterol Inhaler

SYNONYMS: Albuterol, USP Inhalation Aerosol

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: Albuterol
CAS NUMBER: 18559-94-9
PEL None
TLV None

INGREDIENT: Dichlorodifluoromethane
CAS NUMBER: 75-71-8
PEL 1000 ppm
TLV 1000 ppm

INGREDIENT: Trichlorofluoromethane
CAS NUMBER: 75-69-4
PEL 1000 ppm
TLV 1000 ppm ceiling

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYES

This product contains materials which undiluted cause the following effects:
Irritating to the eyes.

SKIN

This product contains materials which undiluted cause the following effects:
Irritating to the skin.

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3. HAZARDS IDENTIFICATION - Continued

INGESTION

This product contains materials greater than one percent (1%) which undiluted cause the following effects: Although the oral toxicities of the components are low, ingestion should be avoided.

INHALATION

This product contains materials which undiluted cause the following effects: Breathing high concentrations of vapor may cause lightheadedness, giddiness, shortness of breath, and may lead to narcosis, cardiac irregularities, unconsciousness or death.

4. FIRST AID MEASURES

EYES

Flush with water for at least 15 minutes. Obtain medical attention.

SKIN

Remove contaminated clothing. Thoroughly wash exposed area with soap and water. Obtain medical attention.

INGESTION

Give copious amounts of water and induce vomiting, if conscious. Obtain medical attention.

INHALATION

Remove from exposure. If not breathing, give artificial respiration. Obtain medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: > 200 F
AUTOIGNITION: N/A F
FLAMMABILITY CLASS: N/A
LOWER EXPLOSIVE LIMIT (%): N/A
UPPER EXPLOSIVE LIMIT (%): N/A

FIRE AND EXPLOSION HAZARDS

Containers may rupture under fire conditions. Decomposition may occur. Exposure to temperatures above 120 F may cause bursting.

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5. FIRE FIGHTING MEASURES - Continued

EXTINGUISHING MEDIA

Water, water spray.

FIRE FIGHTING INSTRUCTIONS

Fight fire from safe distance or protected location. Use water spray to keep exposed containers and equipment cool. Wear full protective clothing and self contained breathing apparatus (SCBA).

6. ACCIDENTAL RELEASE MEASURES

Notify your supervisor immediately, Allow leaking containers to vent. Minimize contact with spilled material, keep other personnel away from the clean up area. Wear appropriate respiratory protection and protective clothing in the spill area as specified in Section #8. Scoop, absorb or vacuum up any residual material. Clean area with an alkaline cleaner/detergent. Dispose of spilled material and clean up materials as noted in Waste Disposal Methods below.

7. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS

Store in a cool, dry, well ventilated area. Do not heat above 120 F

WORK/HYGIENIC PRACTICES

Train employees concerning hazards and precautions. Provide adequate local exhaust ventilation. Wash hands and forearms after each use. Use indicated protective equipment while handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Provide adequate local exhaust ventilation.

EYE/FACE PROTECTION

None for consumer package, safety glasses with side shields for use of the material in bulk.

SKIN PROTECTION

Lab Coat or Unifrom
Gloves-Latex

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION - Continued

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RESPIRATORY PROTECTION

None for consumer package, Under normal conditions of use in bulk a respirator is not required, under spill conditions a Self-contained breathing apparatus may be required.

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9. PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE

colorless

ODOR

Slight ethereal

BASIC PHYSICAL PROPERTIES

- BOILING POINT: 75 F
- MELTING POINT: N/A F
- VAPOR PRESSURE: 792
- SPECIFIC GRAVITY: 1.48
- SOLUBILITY (H2O): 0.1 %
- EVAPORATION RATE: 0.1 (CCL4 = 1)

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10. STABILITY AND REACTIVITY

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STABILITY: Stable

CONDITIONS TO AVOID (STABILITY)

Avoid open flames and high temperatures.

INCOMPATIBLE MATERIALS

Alkali or alkaline earth metals

HAZARDOUS DECOMPOSITION PRODUCTS

HCL, HF, possible carbonyl halides

HAZARDOUS POLYMERIZATION: Will not occur

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11. TOXICOLOGICAL INFORMATION

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MISCELLANEOUS TOXICOLOGICAL INFORMATION

Albuterol may cause paradoxical bronchospasm, fatalities have been reported

with excessive use of inhaled sympathomimetic drugs.

Albuterol was teratogenic in mice when given at doses corresponding to 14 times the human dose, and in rabbits at 2800 times the maximum human inhalation dose.

Albuterol may cause the following adverse reactions; palpitations, tachycardia, increased blood pressure, tremors, nausea, dizziness, heatburn, nervousness, vomiting, headache, angina, insomnia, vertigo, and dryness or irritation of the throat. Rare cases of urticaria, rash, bronchospasm, oropharyngeal edema have also been reported.

As with other sympathomimic aerosol medications cardiac arrest and even death may be associated with abuse or high exposures.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Albuterol is a sympathomimetic amine and should be used with caution with individuals with cardiovascular disorders, hyperthyroidism or diabetes mellitus, ketoacidosis, or are responsive to other sympathomimetic amines.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

While not a RCRA hazardous waste, material should be disposed in an environmentally sound manner.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Consumer Commodity

HAZARD CLASS: ORM-D

PACKAGING REQUIREMENTS: 173.156, 173.306

ADDITIONAL SHIPPING PAPER DESCRIPTION

IATA CLASSIFICATION

PROPER SHIPPING NAME: Consumer Commodity

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14. TRANSPORT INFORMATION - Continued

ADDITIONAL SHIPPING PAPER DESCRIPTION - Continued

HAZARD CLASS: 9

UN/ID. No.: 8000

HAZARD LABEL: Miscellaneous

PKG Instructions: 910

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15. REGULATORY INFORMATION
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The following statement is required by the Federal government's Clean Air Act for all products containing or manufactured with chlorofluorocarbons (CFCs).

WARNING: Contains dichlorodifluoromethane (CFC-12) and trichloromonofluoromethane (CFC-11), substances which harm public health and the environment by destroying ozone in the upper atmosphere.

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16. OTHER INFORMATION
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SUPERCEDES MSDS DATED: 04/12/96

REVISION SUMMARY

Since 04/12/96 this MSDS has been revised in the following sections:

- 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
2. COMPOSITION/INFORMATION ON INGREDIENTS
12. ECOLOGICAL INFORMATION
14. TRANSPORT INFORMATION
15. REGULATORY INFORMATION
16. OTHER INFORMATION

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Warrick Pharmaceuticals