

BOEHRINGER-INGELHEIM PHARMACEUTICALS -- METAPROTERENOL
SULFATE, ALUPENT -- 6505-01-078-0667

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Product Identification
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Product ID:METAPROTERENOL SULFATE, ALUPENT
MSDS Date:04/01/1991
FSC:6505
NIIN:01-078-0667
MSDS Number: BWLFF
=== Responsible Party ===
Company Name:BOEHRINGER-INGELHEIM PHARMACEUTICALS
Address:900 RIDGEBURY RD
Box:849
City:RIDGEFIELD
State:CT
ZIP:06877
Country:US
Info Phone Num:203-798-5521
Emergency Phone Num:203-798-4312
Preparer's Name:(MSDS#:BIPI01(ALUPENT))
CAGE:6J831
=== Contractor Identification ===
Company Name:BOEHRINGER-INGELHEIM PHARMACEUTICALS
Address:900 RIDGEBURY RD
Box:849
City:RIDGEFIELD
State:CT
ZIP:06877
Country:US
Phone:203-798-4312
CAGE:6J831

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Composition/Information on Ingredients
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Ingred Name:BENZYL ALCOHOL,3,5-DIHYDROXY-ALPHA-(ISOPROPYL AMINO)
METHYL-SULFATE (2:1) (SALT) OR METAPROTERENOL SULFATE OR ALUPENT
CAS:5874-97-5
RTECS #:DO2275000
Fraction by Wt: 100%
Other REC Limits:NONE RECOMMENDED

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Hazards Identification
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LD50 LC50 Mixture:LD50 ORAL, RAT = 5538 MG/KG.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE:EYE, SKIN, &/OR RESPIRATORY
IRRITATION. CHRONIC:POSSIBLE HYPERSENSITIZATION.
Explanation of Carcinogenicity:PER MSDS:NOT LISTED AS
CARCINOGEN/POTENTIAL CARCINOGEN BY NTP/IARC/OSHA.
Effects of Overexposure:POSSIBLE ALLERGIC REACTION TO DUST IF INHALED,
INGEST OR IN CONTACT W/SKIN,TACHYCARDIA, HYPERTENSION,
PALPITATIONS, NERVOUSNESS, TREMOR, NAUSEA, VOMITING.
Medical Cond Aggravated by Exposure:HPERSENSITIVITY TO MATERIAL,

HYPERTENSION, CORONARY ARTERY DISEASE, CONGESTIVE HEART FAILURE,
HYPERTHYROIDISM, DIABETES.

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First Aid Measures
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First Aid: PERSONS DEVELOPING HYPERSENSITIVITY (ANAPHYLACTIC) REACTIONS
MUST RECEIVE IMMEDIATE MEDICAL ATTENTION. INGEST: FLUSH OUT MOUTH WITH WATER. SEEK MEDICAL
ATTENTION. INHALATION: REMOVE TO WELL VENTILATED AREA. GET MEDICAL ATTENTION. BREATH DIFFICULTY GIVE
OXYGEN. BREATH STOP START ARTIFICIAL RESPIRATION. SKIN: REMOVE CONTAMINATED CLOTHING. FLUSH
WITH COPIOUS QUANTITY OF WATER. IRRITATION/RASH DEVELOPS GET MEDICAL
ATTENTION. EYE: IRRIGATE WITH COPIOUS QUANTITY OF WATER. SEEK IMMEDIATE MEDICAL ATTENTION.

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Fire Fighting Measures
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Extinguishing Media: WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE, OR FOAM
AS APPROPRIATE FOR SURROUNDING FIRE AND MATERIALS.
Fire Fighting Procedures: AS WITH ALL FIRES EVACUATE PERSONNEL TO SAFE
AREA. FIREFIGHTERS SHOULD USE SELF-CONTAINED BREATHING EQUIPMENT &
PROTECTIVE CLOTHING. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS
Unusual Fire/Explosion Hazard: AS WITH ANY FINELY DIVIDED ORGANIC SOLID DUST
MAY BE EXPLOSION MIXED WITH AIR IN CRITICAL PROPORTIONS & PRESENCE OF
IGNITION SOURCE.

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Accidental Release Measures
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Spill Release Procedures: WEAR APPROVED RESPIRATOR & CHEMICAL COMPATIBLE
GLOVES. VACUUM/SWEEP UP SPILLAGE. AVOID CREATING DUST. PLACE SPILLAGE
IN APPROPRIATE CONTAINER FOR WASTE DISPOSAL. WASH CONTAMINATED
CLOTHING BEFORE REUSE. VENTILATE AREA & WASH SPILL SITE.

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Handling and Storage
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Handling and Storage Precautions: AVOID CONTACT WITH EYES/SKIN/CLOTHING. AVOID
BREATHING DUST. USE WITH ADEQUATE DUST CONTROL. STORE IN AIR TIGHT
CONTAINER. PROTECT FROM LIGHT & EXTREMES OF HEAT.
Other Precautions: MECHANICAL EQUIPMENT WHICH COMES IN CONTACT WITH DRY
MATERIAL SHOULD BE GROUNDED TO DISSIPATE POTENTIAL BUILDUP OF STATIC
ELECTRICITY. REPORT ANY EXPOSURE INCIDENT TO YOUR SUPERVISOR. DO NOT
PERMIT EATING/DRINKING/SMOKING NEAR MATERIAL.

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Exposure Controls/Personal Protection
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Respiratory Protection: THE NEED FOR RESPIRATOR PROTECTION SHOULD BE
DETERMINED BY AN INDUSTRIAL HYGIENE SURVEY. NIOSH/MSHA APPROVED
DUST RESPIRATORS FOR PROTECTION AGAINST DUST SHOULD BE USED IF
RESPIRATORS ARE FOUND TO BE NECESSARY.
Ventilation: ADEQUATE. LOCAL EXHAUST: RECOMMENDED. MECHANICAL (GENERAL
AREA): RECOMMENDED.
Protective Gloves: RUBBER GLOVES
Eye Protection: SAFETY GOGGLES FOR PROTECTION FROM DUST
Other Protective Equipment: APPROPRIATE LAB APPAREL, PROTECT EXPOSED
SKIN. IF DUST HAZARD EXISTS AN EYEWASH FOUNTAIN SHOULD BE MADE
AVAILABLE.
Work Hygienic Practices: MAINTAIN GOOD HOUSEKEEPING FOR CONTROL OF
DUST. WASH WELL AFTER HANDLING MATERIAL. WEAR FRESH CLOTHING DAILY. WASH
CONTAMINATED CLOTHING.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:401F,205C

Solubility in Water:SOLUBLE

Appearance and Odor:WHITE CRYSTALLINE POWDER, ODORLESS

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

ALKALIS, A HEAVY METAL IONS AND OXIDIZING AGENTS.

Stability Condition to Avoid:MATERIAL IS STABLE FROM A SAFETY POINT OF VIEW.

Hazardous Decomposition Products:WHEN HEATED TO DECOMPOSITION OR UNDER FIRE CONDITONS, MATERIAL EMITS TOXIC FUMES.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. RECOMMENDED METHOD IS BY INCINERATION OR LANDFILL.

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