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IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

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Material Name: Salbutamol Inhalation Solution 6 mg/mL

Trade Name: Salbutamol Synonyms: Albuterol Sulfate

Chemical Family: Mixture

Intended Use: Pharmaceutical product used as bronchodilator

HAZARDS IDENTIFICATION

Clear, colorless solution Appearance:

Statement of Hazard: Non-hazardous in accordance with international standards for workplace safety.

Additional Hazard Information:

Not acutely toxic (based on animal data). May cause eye irritation, May cause skin irritation. **Short Term:**

(based on components).

Animal studies have shown a potential to cause adverse effects on the fetus. Long Term:

Known Clinical Effects: Adverse effects associated with the therapeutic use include nervousness, headache,

increased heart rate (tachycardia).

EU Indication of danger: Not classified

Australian Hazard Classification

(NOHSC):

Non-Hazardous Substance. Non-Dangerous Goods.

Note: This document has been prepared in accordance with standards for workplace safety, which

> require the inclusion of all known hazards of the active substance or its intermediates regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your

workplace.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	Classification	%
Salbutamol Sulfate	51022-70-9	256-916-8	Repr.Cat3;R63	0-1
Benzalkonium chloride	8001-54-5	Not listed	Not Listed	0-0.1

Ingredient	CAS Number	EU EINECS/ELINCS List	Classification	%
Water for Injection	7732-18-5	231-791-2	Not Listed	*

Additional Information: * Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace

safety.

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for at least 15 minutes. If irritation occurs or persists, get

medical attention.

Skin Contact: Wash exposed area with soap and water, remove contaminated clothing and obtain medical

assistance if irritation occurs.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Inhalation: Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Symptoms and Effects of Exposure: For information on potential signs and symptoms of exposure, See Section 2 - Hazards

Identification and/or Section 11 - Toxicological Information.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use carbon dioxide, dry chemical, or water spray.

Hazardous Combustion Products: Emits toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides and other

sulfur-containing compounds.

Fire Fighting Procedures: During all fire fighting activities, wear appropriate protective equipment, including self-

contained breathing apparatus.

Fire / Explosion Hazards: Not applicable

6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions: Personnel involved in clean-up should wear appropriate personal protective equipment (see

Section 8). Minimize exposure.

Measures for Cleaning / Collecting: Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill

area thoroughly.

Measures for Environmental

Protections:

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to

avoid environmental release.

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Additional Consideration for Large

Spills:

Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

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7. HANDLING AND STORAGE

General Handling: Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use

appropriate personal protective equipment (see Section 8). Wash thoroughly after handling.

Storage Conditions: Store as directed by product packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

No Occupational Exposure Limit (OEL) or Short Term Exposure Limit (STEL) has been identified.

Engineering Controls: Engineering controls should be used as the primary means to control exposures. General

room ventilation is adequate unless the process generates dust, mist or fumes.

Personal Protective Equipment:

Hands: Impervious gloves are recommended if skin contact with drug product is possible and for bulk

processing operations.

Eyes: Wear safety glasses or goggles if eye contact is possible.

Skin: Impervious protective clothing is recommended if skin contact with drug product is possible and

for bulk processing operations.

Respiratory protection: Whenever excessive air contamination (dust, mist, vapor) is generated, respiratory protection,

with appropriate protection factors, should be used to minimize exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:LiquidColor:ColorlessMolecular Formula:MixtureMolecular Weight:Mixture

Water Solubility: Aqueous solution

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.

Conditions to Avoid: None known Incompatible Materials: None known

11. TOXICOLOGICAL INFORMATION

General Information: The information included in this section describes the potential hazards of the individual

ingredients.

Acute Toxicity: (Species, Route, End Point, Dose)

Salbutamol Sulfate

Rat Oral LD50 > 2500 mg/kg
Rat Intravenous LD50 59.1 mg/kg
Rat Intraperitoneal LD50 295 mg/kg

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Mouse Oral LD50 1950 mg/kg Mouse Intravenous LD50 48.7 mg/kg

Benzalkonium chloride

Rat Oral LD50 240 mg/kg

Acute Toxicity Comments: A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable

at the highest dose used in the test.

<u>Irritation / Sensitization: (Study Type, Species, Severity)</u>

Benzalkonium chloride

Skin Irritation Rabbit Moderate Eye Irritation Rabbit Severe

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

Salbutamol Sulfate

Reproductive & Fertility Rat Oral 50 mg/kg NOAEL No effects at maximum dose Embryo / Fetal Development Mouse Subcutaneous 0.25 mg/kg LOAEL Teratogenic

Embryo / Fetal Development Rabbit Oral 50 mg/kg/day LOAEL Teratogenic

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Salbutamol Sulfate

Bacterial Mutagenicity (Ames) Salmonella, E. coli Negative

In Vivo Micronucleus Mouse Negative

In Vitro Chromosome Aberration Human Lymphocytes Negative

Mitotic Gene Conversion Fungi Negative

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Salbutamol Sulfate

18 Month(s) Mouse Oral 500 mg/kg/day NOAEL Not carcinogenic 22 Month(s) Hamster Oral 50 mg/kg/day NOAEL Not carcinogenic

2 Year(s) Rat Oral 2 mg/kg/day LOAEL Benign tumors, Female reproductive system

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties have not been thoroughly investigated. Releases to the environment

should be avoided.

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered.

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14. TRANSPORT INFORMATION

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. REGULATORY INFORMATION

EU Indication of danger: Not classified

OSHA Label:

Non-hazardous in accordance with international standards for workplace safety.

Canada - WHMIS: Classifications

WHMIS hazard class:

D2a very toxic materials



Salbutamol Sulfate

Australia (AICS): Present Standard for the Uniform Scheduling 4

for Drugs and Poisons:

EU EINECS/ELINCS List 256-916-8

Water for Injection

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

REACH - Annex IV - Exemptions from the

Present

Present

obligations of Register:

EU EINECS/ELINCS List 231-791-2

Benzalkonium chloride

Australia (AICS): Present

Standard for the Uniform Scheduling Schedule 5 for Drugs and Poisons: Schedule 6

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

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R63 - Possible risk of harm to the unborn child.

Data Sources: The data contained in this MSDS may have been gathered from confidential internal sources,

raw material suppliers, or from the published literature.

Reasons for Revision: New data sheet.

Prepared by: Toxicology and Hazard Communication

Pfizer Global Environment, Health, and Safety

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet