# SAFETY DATA SHEET



### 1. Identification

**Product identifier RESPONTIN NEBULES** 

Other means of identification Not available.

RESPONTIN NEBULES 250MCG/ML \* IPRATROPIUM BROMIDE, FORMULATED PRODUCT Synonym(s)

Recommended use Medicinal Product

> This safety data sheet is written to provide health, safety and environmental information for people handling this formulated product in the workplace. It is not intended to provide information relevant

to medicinal use of the product. In this instance patients should consult prescribing

information/package insert/product label or consult their pharmacist or physician. For health and safety information for individual ingredients used during manufacturing, refer to the appropriate

safety data sheet for each ingredient.

**Recommended restrictions** No other uses are advised. Manufacturer/Importer/Supplier/Distributor information

Manufacturer

GlaxoSmithKline US 5 Moore Drive

Research Triangle Park, NC 27709 USA

US General Information (normal business hours): +1-888-825-5249

Email Address: msds@gsk.com Website: www.ask.com **EMERGENCY PHONE NUMBERS -**TRANSPORT EMERGENCIES::

US / International toll call +1 703 527 3887

available 24 hrs/7 days; multi-language response

## 2. Hazard(s) identification

### Classified hazards

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

### Label elements

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

## Hazard(s) not otherwise classified (HNOC)

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
IPRATROPIUM BROMIDE	AH 14211AA 8-AZONIABICYCLO(3.2.1)OCTANE, 3-(3-HYDROXY-1-OXO-2-PHENYLPROPOX Y)-8-METHYL-8-(1-METHYLETHYL)-, (ENDO, SYN)-(+-) N-ISOPROPYLATROPINIUM BROMIDE 1720 (GW ACN)	22254-24-6	0.03

Other components below reportable levels

99.97

## 4. First-aid measures

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing Skin contact

and shoes. Get medical attention if irritation develops and persists.

Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation Eye contact

develops and persists.

Ingestion Rinse mouth thoroughly. Get medical advice/attention if you feel unwell. Do not induce vomiting.

Most important The following adverse effects have been noted with therapeutic use of this material: dyspeptic

symptoms; nausea; dry mouth; palpitations. symptoms/effects, acute and

delayed

Material name: RESPONTIN NEBULES SDS US

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Indication of immediate medical attention and special treatment needed

General information

No specific antidotes are recommended. Treat according to locally accepted protocols. For additional guidance, refer to the current prescribing information or to the local poison control information center.

The need for pre-placement and periodic health surveillance must be determined by risk assessment.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Foam. Dry chemical powder. Carbon dioxide (CO2). Water.

None known.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

This product is expected to be non-combustible.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10

of the SDS).

# 8. Exposure controls/personal protection

## Occupational exposure limits

**GSK** 

Components	Туре	Value	
IPRATROPIUM BROMIDE (CAS 22254-24-6)	8 HR TWA	2 mcg/m3	
,	OHC	4	

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

No particular ventilation requirements. An Exposure Control Approach (ECA) is established for operations involving this material based upon the OEL/Occupational Hazard Category and the outcome of a site, or operation specific risk assessment.

outcome of a site- or operation-specific risk assessment.

# Individual protection measures, such as personal protective equipment

**Eye/face protection** If contact is likely, safety glasses with side shields are recommended.

Hand protection The choice of an appropriate glove does not only depend on its material but also on other quality

features and is different from one producer to the other. Glove selection must take into account

any solvents and other hazards present.

Other Wear suitable protective clothing.

**Respiratory protection**No personal respiratory protective equipment normally required. **Thermal hazards**Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. For advice on suitable monitoring methods, seek guidance

from a qualified environment, health and safety professional.

## Physical and chemical properties

## Appearance

Physical state Liquid.

Form Plastic container.
Color Not available.
Odor Not available.
Odor threshold Not available.
PH Not available.
Melting point/freezing point Not available.
Initial boiling point and boiling Not available.

range

Flash point Non-Flammable
Evaporation rate Not available.
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

## 10. Stability and reactivity

Reactivity Not available.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

### 11. Toxicological information

# Information on likely routes of exposure

**Ingestion** May cause discomfort if swallowed.

**Inhalation** Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

**Skin contact**Health injuries are not known or expected under normal use. **Eye contact**Health injuries are not known or expected under normal use.

Symptoms related to the physical, chemical and toxicological characteristics

The following adverse effects have been noted with therapeutic use of this material: dry mouth;

increased heart rate; palpitations; dyspeptic symptoms; nausea.

Information on toxicological effects

**Acute toxicity** May be harmful if swallowed.

Components Species Test Results

IPRATROPIUM BROMIDE (CAS 22254-24-6)

**Acute** 

Oral

LD50 Mouse 1001 mg/kg

Material name: RESPONTIN NEBULES

127363 Version #: 05 Revision date: 04-01-2014 Issue date: 04-01-2014

SDS US

Components **Species Test Results** 

> Rat 1663 mg/kg

\* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Health injuries are not known or expected under normal use. Health injuries are not known or expected under normal use. Serious eye damage/eye

irritation

Eve

**IPRATROPIUM BROMIDE** Acute ocular irritation: OECD 405

> Result: Moderate Irritant Notes: Pfizer SDS

Respiratory or skin sensitization

Respiratory sensitization Not available. None known. Skin sensitization

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Mutagenicity

**IPRATROPIUM BROMIDE** Ames

Result: Negative

Notes: Boehringer Ingelheim prescribing information.

Chromosomal Aberration Assay In Vitro

Result: Negative

Notes: Boehringer Ingelheim prescribing information.

Dominant lethal assay Result: Negative Species: Mouse

Notes: Boehringer Ingelheim prescribing information.

In vivo Micronucleus Result: Negative Species: Mouse

Notes: Boehringer Ingelheim prescribing information.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

**IPRATROPIUM BROMIDE** <= 6 mg/kg/day ICH S1B - Inhalation

> Result: Negative Species: Mouse Test Duration: 2 years

Notes: Boehringer Ingelheim prescribing information.

<= 6 mg/kg/day ICH S1B - Inhalation

Result: Negative Species: Rat Test Duration: 2 years

Notes: Boehringer Ingelheim prescribing information.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Contains no ingredient listed as toxic to reproduction

Reproductivity

**IPRATROPIUM BROMIDE** 1.5 mg/kg/day Foetal development - inhalation

Result: Foetal NOAEL

Species: Rat

Notes: Boehringer Ingelheim prescribing information. 1.8 mg/kg/day Foetal development - inhalation

Result: Foetal NOAEL Species: Rabbit

Notes: Boehringer Ingelheim prescribing information. 10 mg/kg/day Embryo-foetal development, Oral NOAEL.

Result: No malformtions.

Species: Mouse

Notes: Boehringer Ingelheim prescribing information. 1000 mg/kg/day Embryo-foetal development, Oral NOAEL.

Result: No malformtions.

Species: Rat

Notes: Boehringer Ingelheim prescribing information. 125 mg/kg/day Embryo-foetal development, Oral NOAEL.

Result: No malformtions.

Species: Rabbit

Notes: Boehringer Ingelheim prescribing information.

Material name: RESPONTIN NEBULES

Reproductivity

IPRATROPIUM BROMIDE 90 mg/kg/day Foetal development - inhalation

Result: embryolethality

Species: Rat

Notes: Boehringer Ingelheim prescribing information.

Specific target organ toxicity -

single exposure

Chronic effects

None known.

Specific target organ toxicity -

repeated exposure

None known.

Aspiration hazard

Not likely, due to the form of the product.

Prolonged inhalation may be harmful.

Further information None known.

# 12. Ecological information

**Ecotoxicity**No information is available about the potential of this product to produce adverse environmental

effects

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Other adverse effects
Not available.
Not available.
Not available.

## 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations**Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 14. Transport information

DOT

Not regulated as a dangerous good.

IATA

Not regulated as dangerous goods.

**IMDG** 

the IBC Code

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

MARPOL Annex II applies to liquids used in a ship's operation that pose a threat to the marine

environment. These materials may not be transported in bulk.

15. Regulatory information

**US federal regulations**One or more components are not listed on TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

Material name: RESPONTIN NEBULES

127363 Version #: 05 Revision date: 04-01-2014 Issue date: 04-01-2014

SARA 311/312 Hazardous No

chemical

## SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

Inventory name

(SDWA)

### **US** state regulations

#### **US. Massachusetts RTK - Substance List**

Not regulated.

## US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

## US. Pennsylvania RTK - Hazardous Substances

Not regulated.

## **US. Rhode Island RTK**

Not regulated.

### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### **International Inventories**

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

 Issue date
 04-01-2014

 Revision date
 04-01-2014

Version # 05

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 1

Flammability: 0 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 0 Instability: 0

**References** GSK Hazard Determination

**Disclaimer** The information and recommendations in this safety data sheet are, to the best of our knowledge,

accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and

the suitability of the material or product for any particular purpose.

127363 Version #: 05 Revision date: 04-01-2014 Issue date: 04-01-2014

On inventory (yes/no)\*

## **Revision Information**

Product and Company Identification: Business Units Composition / Information on Ingredients: Ingredients Physical & Chemical Properties:

Toxicological Information:
Regulatory Information: United States

GHS: Classification

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127363 Version #: 05 Revision date: 04-01-2014 Issue date: 04-01-2014