SAFETY DATA SHEET

1. Identification

Product identifier **VENTOLIN INHALATION AEROSOL**

Other means of identification Not available.

Synonym(s) VENTOLIN INHALATION AEROSOL * VENTOLIN IHNALATION AEROSOL REFILL * VENTOLIN EASI-BREATHE 100MCG, 200 DOSE * VENTOLIN EASI-BREATHE INHALER * VENTOLIN AEROSOL * VENTOLIN AEROZOL * VENTOLIN AEROZOL BEZFREONOWY ZAWIESINA * VENTOLIN INHALACIOS AEROSZOL * VENTOLIN INHALADOR * VENTOLIN INHALATEUR * VENTOLIN INHALATORS * VENTOLIN INHALATSIOONIAEROSOOL * VENTOLIN INHALER * VENTOLIN INHALER N * SALBUTAMOL, FORMULATED PRODUCT

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.gsk.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

Hazardous components

Chemical name	Common name and synonyms	CAS number	%
DICHLORODIFLUOROMETHANE	CHLOROFLUOROCARBON 12 DICHLORODIFLUOROMETHANE(R-12) DICHLORODIFLUOROMETHANE (CCl2F2) DIFLUORODICHLOROMETHANE CF 12 FREON 12 CFC 12 RCRA U075 UN 1028 CCl2F2 OHS06880 RTECS PA8200000	75-71-8	70 - < 80

Hazardous components

Chemical name	Common name and synonyms	CAS number	%
FLUOROTRICHLOROMETHANE	TRICHLOROMONOFLUOROMETHANE MONOFLUOROTRICHLOROMETHANE TRICHLOROFLUOROMETHANE FLUOROCHLOROFORM FREON 11 F 11 FC 11 CFC 11 RCRA U121 CCl3F OHS09990 RTECS PB6125000 CFC-11 (TRICHLOROFLUOROMETHANE) CFC11 FLUORITRIKLOORIMETAANI FLUOROTRICLOROMETANO HFO-11 METHANE, TRICHLOROFLUORO TRICHLOROFLUORMETHANE TRICHLOROMONOFLUORO-METHANE TRICLOROFLUORMETANO TRIKLORFLUORMETAN (KFK-11)	75-69-4	20 - < 30
SALBUTAMOL	ALBUTEROL 1-(4-HYDROXY-3-HYDROXYMETHYLPHEN ETHANO SALBUTAMOL BASE AH 3365 388 (GW ACN) SALBUTAMOL-	18559-94-9	< 0.2
Other components below reportable levels			< 0.1

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed The following adverse effects have been noted with therapeutic use of this material: headache; changes in blood pressure; altered heart rate and pulse.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically.

General information If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed. Pressurized container may explode when exposed to heat or flame.

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 Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. For personal protection, see section 8 of the MSDS.

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 in original containers for re-use. For waste disposal, see section 13 of the MSDS.

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 MSDS). The recommended temperature for storage is 15 - 25 °C.

8. Exposure controls/personal protection

Occupational exposure limits

GSK

Components	Type	Value
SALBUTAMOL (CAS 18559-94-9)	8 HR TWA	10 mcg/m3
	OHC	4

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
DICHLORODIFLUOROMETHANE (CAS 75-71-8)	PEL	4950 mg/m3
		1000 ppm
FLUOROTRICHLOROMETHANE (CAS 75-69-4)	PEL	5600 mg/m3
		1000 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
DICHLORODIFLUOROMETHANE (CAS 75-71-8)	TWA	1000 ppm
FLUOROTRICHLOROMETHANE (CAS 75-69-4)	Ceiling	1000 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
DICHLORODIFLUOROMETHANE (CAS 75-71-8)	TWA	4950 mg/m3
		1000 ppm
FLUOROTRICHLOROMETHANE (CAS 75-69-4)	Ceiling	5600 mg/m3
		1000 ppm

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

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

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

Hand protection For prolonged or repeated skin contact use suitable protective gloves. The selection of gloves for a specific activity must be based on the material's properties and on possible permeation and degradation that may occur under the circumstances of use. Glove selection must take into account any solvents and other hazards present. Care must be exercised if insufficient data are available and further guidance should be sought from your local EHS department. Potential allergic reactions can occur with certain glove materials (e.g. Latex) and therefore these should be avoided.

Other Wear suitable protective clothing.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Aerosol.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	-14.8 °F (-26 °C)
Flash point	Not available.
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)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Percent volatile	99.9 % estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials. Avoid direct sunlight, conditions that might generate heat and sources of ignition.
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	Health injuries are not known or expected under normal use.
Inhalation	Health injuries are not known or expected under normal use.
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: headache; changes in blood pressure; altered heart rate and pulse.

Information on toxicological effects

Acute toxicity Health injuries are not known or expected under normal use.

Components	Species	Test Results
DICHLORODIFLUOROMETHANE (CAS 75-71-8)		
Acute		
Inhalation		
LC50	Rat	> 800000 mg/l, 30 Minutes
LOEL	Human	27000 ppm, Effects on heart and respiratory parameters.
		10000 ppm, Impaired psychomotor performance.
NOEL	Human	1000 ppm
Oral		
LD50	Rat	> 1 g/kg
Chronic		
Oral		
NOAEL	Rat	15 mg/kg/day, dietary study - Decrease in bodyweight.
FLUOROTRICHLOROMETHANE (CAS 75-69-4)		
Acute		
Oral		
LD50	Rat	> 15000 mg/day
SALBUTAMOL (CAS 18559-94-9)		
Acute		
Oral		
LD50	Rat	660 mg/kg
Chronic		
Oral		
LOEL	Dog	2 mg/kg/day, 1 years
Subacute		
Oral		
LOEL	Rat	30 mg/kg/day, 30 Day
Subchronic		
Inhalation		
LOEL	Rat	600 mcg/kg/day, 26 weeks
NOAEL	Dog	1710 mcg/kg/day, 13 weeks
	Rat	512 mcg/kg/day, 6 months
		1.9 mg/kg/day, 13 weeks
NOEL	Dog	220 mcg/kg/day, 26 weeks

* 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.

Corrosivity

FLUOROTRICHLOROMETHANE
OECD 404
Result: Non-irritant
Species: Rabbit

Irritation Corrosion - Skin

DICHLORODIFLUOROMETHANE
Result: Slightly irritating
Species: Rabbit
Test Duration: 1 months

Serious eye damage/eye irritation

Eye

FLUOROTRICHLOROMETHANE
Acute ocular irritation; OECD 405
Result: Non-Irritating
Species: Rabbit

Eye

DICHLORODIFLUOROMETHANE	Result: Slight irritant Species: Rabbit Test Duration: 1 months

Respiratory sensitization Due to lack of data the classification is not possible.

Skin sensitization None known.

Sensitization

DICHLORODIFLUOROMETHANE	Epidemiology Result: Low incidence of contact hypersensitivity.

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

FLUOROTRICHLOROMETHANE	1000 - 45000 ppm Dominant lethal assay, Inhalation study. Result: Negative Species: Mouse 1000 - 50000 ppm In vivo cytogenetics, Inhalation study. Result: Negative Species: Rat
DICHLORODIFLUOROMETHANE	15 - 150 mg/kg Dominant lethal assay Result: Negative Species: Rat Ames Result: Negative
FLUOROTRICHLOROMETHANE	Ames Result: Negative
SALBUTAMOL	Ames Result: Negative Notes: Data from albuterol sulfate
FLUOROTRICHLOROMETHANE	Cell transformation (BHK21 cells) Result: Negative
SALBUTAMOL	Chromosomal Aberration Assay In Vitro Result: Negative Notes: Data from albuterol sulfate
DICHLORODIFLUOROMETHANE	In vitro cell transformation assay. Result: Negative
SALBUTAMOL	Mouse micronucleus test Result: Negative Notes: Data from albuterol sulfate
DICHLORODIFLUOROMETHANE	mammalian cell mutation assay (CHO/HGPRT forward mutation assay) Result: Negative
FLUOROTRICHLOROMETHANE	mammalian cell mutation assay (CHO/HGPRT forward mutation assay) Result: Negative

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Not classifiable as to carcinogenicity to humans.

DICHLORODIFLUOROMETHANE	1000 - 5000 ppm Result: No tumourigenic effect. Species: Rat
FLUOROTRICHLOROMETHANE	1000 - 5000 ppm Inhalation Result: Negative Species: Mouse Test Duration: 78 weeks 1000 - 5000 ppm Inhalation Result: Negative Species: Rat Test Duration: 78 weeks
DICHLORODIFLUOROMETHANE	1000 - 50000 ppm Result: No tumourigenic effect. Species: Mouse 15 - 150 mg/kg/day Result: No tumourigenic effect. Species: Rat
FLUOROTRICHLOROMETHANE	1962 - 3925 mg/kg/day oral Result: Negative Species: Mouse Test Duration: 78 weeks 488 - 1077 mg/kg/day oral Result: Negative Species: Rat Test Duration: 78 weeks

Carcinogenicity

DICHLORODIFLUOROMETHANE	8 - 80 mg/kg/day Result: No tumourigenic effect. Species: Dog
SALBUTAMOL	Result: Negative Species: Mouse Notes: Data from albuterol sulfate Result: Negative Species: Rat Notes: Data from albuterol sulfate

Reproductive toxicity Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.

DICHLORODIFLUOROMETHANE	15 - 150 mg/kg/day 3-generation study Result: No adverse effects on fertility, or development. Species: Rat
SALBUTAMOL	2.5 mg/kg/day Embryofetal Development, Species-specific Result: Developmental effects including cleft palate Species: Mouse Notes: Data from albuterol sulfate
FLUOROTRICHLOROMETHANE	200000 ppm Foetal development - inhalation Result: NOAEL Species: Rabbit 200000 ppm Foetal development - inhalation Result: NOAEL Species: Rat
DICHLORODIFLUOROMETHANE	200000 ppm, Inhalation Result: No adverse foetal effects observed Species: Rabbit 200000 ppm, Inhalation Result: No adverse foetal effects observed Species: Rat
SALBUTAMOL	50 mg/kg/day Embryofetal Development Result: Cranial malformations Species: Rabbit Notes: Data from albuterol sulfate 50 mg/kg/day Fertility Result: Negative Species: Rat Notes: Data from albuterol sulfate Embryofetal Development Result: Negative Species: Rat Notes: Data from albuterol sulfate

Specific target organ toxicity - single exposure Heart.

FLUOROTRICHLOROMETHANE	Organ: Heart

Specific target organ toxicity - repeated exposure Heart.

Aspiration hazard Due to lack of data the classification is not possible.

Further information Caution - Pharmaceutical agent.

FLUOROTRICHLOROMETHANE	Asphyxiant

12. Ecological information

Ecotoxicity

Components		Species	Test Results
DICHLORODIFLUOROMETHANE (CAS 75-71-8)			
Aquatic			
Acute			
Fish	EC50	Orange-red killfish (Adult Oryzias latipes)	67 mg/L, 48 hours, Static renewal test
SALBUTAMOL (CAS 18559-94-9)			
Aquatic			
Acute			
Activated Sludge Respiration	IC50	Residential sludge	> 830 mg/l, 3 hours
Crustacea	EC50	Water flea (Daphnia magna)	243 mg/l, 48 hours, Static , TAD 4.08

Components		Species	Test Results
	NOEC	Water flea (Daphnia magna)	83.2 mg/l, 48 hours, Static test
Chronic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	> 100 mg/l, 8 days, Static renewal, EPA 1002
	LOEC	Water flea (Ceriodaphnia dubia)	> 100 mg/l, 8 days, Static renewal test
	NOEC	Water flea (Ceriodaphnia dubia)	100 mg/l, 8 days, 7 day static renewal

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

Persistence and degradability

Photolysis

Half-life (Photolysis-atmospheric)

DICHLORODIFLUOROMETHANE > 300 Years Measured

UV/visible spectrum wavelength

SALBUTAMOL 225 nm

Hydrolysis

Half-life (Hydrolysis-neutral)

SALBUTAMOL > 1 Years Measured

Biodegradability

Percent degradation (Aerobic biodegradation-soil)

SALBUTAMOL 1.3 - 38.7 %, 64 days

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

SALBUTAMOL 0.061 (Calculated).
DICHLORODIFLUOROMETHANE 2.16
FLUOROTRICHLOROMETHANE 2.53

Bioconcentration factor (BCF)

DICHLORODIFLUOROMETHANE 2.3 - 10 Measured, Cyprinus carpio, carp

Mobility in soil No data available.

Adsorption

Soil/sediment sorption - log Koc

DICHLORODIFLUOROMETHANE 2.3 Estimated
SALBUTAMOL -1.6 - -1.15 Measured

Mobility in general

Volatility

Henry's law

DICHLORODIFLUOROMETHANE 0.343 atm m3/mol Measured, 25 °C
SALBUTAMOL 0 atm m^3/mol Calculated, 20 C

Other adverse effects Not available.

13. Disposal considerations

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

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

US RCRA Hazardous Waste U List: Reference

DICHLORODIFLUOROMETHANE (CAS 75-71-8) U075
FLUOROTRICHLOROMETHANE (CAS 75-69-4) U121

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

UN number UN1950
UN proper shipping name Aerosols, non-flammable
Transport hazard class(es) 2.2

Subsidiary class(es)	Not available.
Packing group	Not available.
Special precautions for user	May be able to ship as an Excepted or Limited Quantity. Review all HazMat Table packaging exceptions and instructions to identify options. Consumer Commodity, ORM-D may apply. or May be exempt from DOT regulations. See 173.307.
Labels required	2.2
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
Qty limits cargo	150 kg
Qty limits passenger	75 kg

IATA

UN number	UN1950
UN proper shipping name	Aerosols, non-flammable
Transport hazard class(es)	2.2
Subsidiary class(es)	-
Packaging group	Not available.
Labels required	2.2
ERG Code	2L
Passenger & cargo	Allowed.
Additional Information:	
Packaging Instruction	203
Pkg Inst cargo only	203
Pkg Inst passenger & cargo	Y203
SP see 44	A98,A145,A167
Max net qty pkg	75 kg
Max net qty pkg cargo only	150 kg
Max net qty pkg LQ	30 kg G

May be able to ship as an Excepted or Limited Quantity. Review all HazMat Table packaging exceptions and instructions to identify options.

ID 8000, Consumer Commodity, may apply. See Packing Instruction Y963.

May not be subject to IATA regulations, see SP A98.

IMDG

UN number	UN1950
UN proper shipping name	AEROSOLS, asphyxiant
Transport hazard class(es)	2
Subsidiary class(es)	5A
Packaging group	Not available.
Environmental hazards	
Marine pollutant	No
Labels required	2.2
EmS	Not available.
Special precautions for user	May be able to ship as an Excepted or Limited Quantity. Review all HazMat Table packaging exceptions and instructions to identify options. May be exempt from IMDG regulations.See IMDG Special Provision 190.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	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.

DOT

IATA

15. Regulatory information

US federal regulations

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

DICHLORODIFLUOROMETHANE (CAS 75-71-8)	LISTED
FLUOROTRICHLOROMETHANE (CAS 75-69-4)	LISTED

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

Not listed.

SARA 304 Emergency release notification

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No
NFPA ratings	Health: 1 Flammability: 0 Instability: 0
HMIS® ratings	Health: 1* Flammability: 0 Physical hazard: 3

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 (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

DICHLORODIFLUOROMETHANE (CAS 75-71-8)
FLUOROTRICHLOROMETHANE (CAS 75-69-4)

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

DICHLORODIFLUOROMETHANE (CAS 75-71-8)	500 lbs
FLUOROTRICHLOROMETHANE (CAS 75-69-4)	500 lbs

US. Pennsylvania RTK - Hazardous Substances

DICHLORODIFLUOROMETHANE (CAS 75-71-8)
FLUOROTRICHLOROMETHANE (CAS 75-69-4)

US. Rhode Island RTK

DICHLORODIFLUOROMETHANE (CAS 75-71-8)
FLUOROTRICHLOROMETHANE (CAS 75-69-4)

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	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
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	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*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 01-20-2014

Revision date 01-20-2014

Version # 13

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

HMIS® ratings
Health: 1*
Flammability: 0
Physical hazard: 3

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.

Revision Information
Product and Company Identification: Material Processes
Composition / Information on Ingredients: Ingredients
Transport Information: Proper Shipping Name/Packing Group
Regulatory Information: United States
Other information, including date of preparation or last revision: Further information