

1. Identification

Product identifier	BETNOVATE SCALP APPLICATION
Other means of identification	Not available.
Synonym(s)	BETNOVATE SCALP APPLICATION 0.1% * BETNOVATE CRINALE LOSUNG * BETNOVATE LOCION CAPILAR * BETNOVATE SCALP APPLICATION LOTION * BETNOVATE SOLUCION CAPILAR * BETNESOL-V CRINALE * BETAMETHASONE VALERATE, 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	%
ISOPROPYL ALCOHOL	ISOPROPANOL	67-63-0	39.3
	ETHYL CARBINOL		
	DIMETHYLCARBINOL		
	2-PROPANOL		
	ISOHOL		
	SEC-PROPYL ALCOHOL		
	PROPYL ALCOHOL		
	UN 1219		
	DIMETHYL CARBINOL		
	PROPANOL		
	ISOPROPYL ALCOHOL A.R.		
	1-METHYLETHANOL		
	1-METHYLETHYL ALCOHOL		
	2-HYDROXYPROPANE		
	2-PROPYL ALCOHOL		
	ISO-PROPANOL		
	ISO-PROPYL ALCOHOL		
	ISOPRANOL		
	LUTOSOL		
	N-PROPAN-2-OL		
	SEC-PROPANOL		
	PROPOL		
	C3H8O		
	OHS12090		
	RTECS NT8050000		
	IPA		
	GR 95896X		
	206W94		
	85 (GW ACN)		
2-PROPENOIC ACID HOMOPOLYMER	CARBOPOL RESINS	9003-01-4	0.25
	CARBOMER RESINS		
	CARBOPOL 980NF		
	CARBOPOL 940		
	CARBOPOL 941		
	CARBOPOL 960		
	CARBOPOL 961		
	CARBOMER 934		
	CARBOMER(R) 934		
	CARBOPOL 981		
	CARBOXYVINYL POLYMER		
	RM 2333		
	2333 (RM)		
	RM 364		
	RM 398		
	U 90		
	U 253		
	U 2091		
	AV-15 (CH)		
	BC-16 (CH)		
	II-39 (CH)		
	181285 (SIGMA-ALDRICH)		
	181293 (SIGMA-ALDRICH)		
	192023 (SIGMA-ALDRICH)		
	192031 (SIGMA-ALDRICH)		
	192058 (SIGMA-ALDRICH)		
	306193 (SIGMA-ALDRICH)		
	306207 (SIGMA-ALDRICH)		
	306215 (SIGMA-ALDRICH)		
	306223 (SIGMA-ALDRICH)		
	306231 (SIGMA-ALDRICH)		
	323667 (SIGMA-ALDRICH)		
	416002 (SIGMA-ALDRICH)		
	P8928 (SIGMA-ALDRICH)		
	81140 (SIGMA-ALDRICH)		
	CARBOPOL 971P NF		
	CARBOPOL 974P NF		
BETAMETHASONE VALERATE	CCI 1795	2152-44-5	0.13
	PREGNA-1,4-DIENE-3,20-DIONE,9-FLUORC (11BETA,16BETA)-9-FLUORO-11,21-DIHYD		
	PENTANOATE		
Other components below reportable levels			60.32

4. First-aid measures

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Get medical attention immediately.
Skin contact	Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. Get medical attention if irritation develops and persists. Wash clothing separately before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical advice/attention if you feel unwell. If ingestion of a large amount does occur, call a poison control center immediately.
Most important symptoms/effects, acute and delayed	Prolonged exposure may cause chronic effects. The following adverse effects have been noted with therapeutic use of this material: burning; itching; pain; symptoms of hypersensitivity (such as skin rash, hives, itching, and/or difficulty breathing).
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Keep victim under observation.

5. Fire-fighting measures

Suitable extinguishing media	Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Water.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. By heating and fire, harmful vapors/gases may be formed. Vapors may travel considerable distance to a source of ignition and flash back. 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	Use standard firefighting procedures and consider the hazards of other involved materials. In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the MSDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. 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 release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. All equipment used when handling the product must be grounded. Static electricity and formation of sparks must be prevented. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Avoid contact during pregnancy/while nursing. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat and sources of ignition. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Refrigeration recommended. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the MSDS).

8. Exposure controls/personal protection

Occupational exposure limits

GSK

Components

Type

Value

Note

2-PROPENOIC ACID
HOMOPOLYMER (CAS
9003-01-4)

OHC

3

BETAMETHASONE
VALERATE (CAS
2152-44-5)

8 HR TWA

10 mcg/m3

OHC

4

REPRODUCTIVE
HAZARD
SKIN

4

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

Components

Type

Value

ISOPROPYL ALCOHOL
(CAS 67-63-0)

PEL

980 mg/m3

400 ppm

US. ACGIH Threshold Limit Values

Components

Type

Value

ISOPROPYL ALCOHOL
(CAS 67-63-0)

STEL

400 ppm

TWA

200 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components

Type

Value

ISOPROPYL ALCOHOL
(CAS 67-63-0)

STEL

1225 mg/m3

500 ppm

TWA

980 mg/m3

400 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components

Value

Determinant

Specimen

Sampling Time

ISOPROPYL ALCOHOL
(CAS 67-63-0)

40 mg/l

Acetone

Urine

*

* - For sampling details, please see the source document.

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

Eye wash fountain is recommended. Wear approved safety glasses with side shields if eye contact is possible.

Hand protection

Wear protective gloves. 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

Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. No personal respiratory protective equipment normally required. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.
Thermal hazards	Not available.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. New or expectant mothers are at greater risk if exposed to the active ingredient which is readily absorbed through the skin. They should not handle unpackaged product. Risk assessments must take this into consideration. Female employees anticipating pregnancy or with a confirmed pregnancy must be encouraged to notify an occupational health professional or their line manager. This will act as the trigger for individual re-assessment of the employee's work practices.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Lotion.
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	Not available.
Flash point	73.4 - 75.2 °F (23 - 24 °C) Closed Cup (Estimation based on components).
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.

10. Stability and reactivity

Reactivity	Strong oxidizing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Isocyanates. Acids. Chlorine.
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 be harmful if swallowed.
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Inhalation	Health injuries are not known or expected under normal use.
Skin contact	Pharmacological effects might occur following direct contact with skin. Repeated contact may increase sensitivity of skin to bruising.
Eye contact	May be irritating to eyes.
Symptoms related to the physical, chemical and toxicological characteristics	The following adverse effects have been noted with therapeutic use of this material: itching; pain; burning; symptoms of hypersensitivity (such as skin rash, hives, itching, and difficulty breathing).

Information on toxicological effects

Acute toxicity May be harmful in contact with skin. May be harmful if swallowed.

Components	Species	Test Results
2-PROPENOIC ACID HOMOPOLYMER (CAS 9003-01-4)		
Acute		
<i>Oral</i>		
LD50	Rat	> 2500 mg/kg
BETAMETHASONE VALERATE (CAS 2152-44-5)		
Acute		
<i>Oral</i>		
LD50	Mouse	> 3000 mg/kg
Subacute		
<i>Inhalation</i>		
NOAEL	Dog	12 m/s, 4 weeks, 12 mg/dog
Subchronic		
<i>Dermal</i>		
LOEL	Rabbit	>= 0.15 mg/kg/day, 90 Days, Pharmacological effects
NOEL	Rabbit	0.05 mg/kg/day, 90 Days
ISOPROPYL ALCOHOL (CAS 67-63-0)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	12.8 g/kg
<i>Inhalation</i>		
LC50	Rat	39 mg/l, 8-hr
<i>Oral</i>		
LD50	Rat	5045 mg/kg
Subchronic		
<i>Inhalation</i>		
LOEL	Mouse	1500 ppm
	Rat	1500 ppm
NOEL	Mouse	500 ppm, 13 weeks
	Rat	500 ppm, 13 weeks

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

Skin corrosion/irritation Repeated contact may increase sensitivity of skin to bruising.

Corrosivity

BETAMETHASONE VALERATE

Repeated exposure, 0.1 % formulation
Result: Non-irritant
Species: Rabbit
Test Duration: 5 Day
Repeated exposure, 0.1 % formulation
Result: mild irritation resulting from formulation
Species: Rabbit
Test Duration: 14 Day

Irritation Corrosion - Skin

ISOPROPYL ALCOHOL

Acute dermal irritation; OECD 404
Result: Non-irritant
Notes: UN SIDS evaluation: 2-Propanol

Serious eye damage/eye irritation May be irritating to eyes.

Eye	BETAMETHASONE VALERATE	0.1 % formulation Result: Non-Irritating Species: Rabbit
	ISOPROPYL ALCOHOL	OECD 405 Result: Mild irritant Species: Rabbit Notes: UN SIDS evaluation: 2-Propanol
Respiratory sensitization	Not available.	
Skin sensitization	May cause sensitization by skin contact.	
Sensitization	BETAMETHASONE VALERATE	Clinical use Result: very rare (<1/10000) Species: Human
	ISOPROPYL ALCOHOL	Ames Result: Negative In vivo Micronucleus Result: Negative Species: Mouse SA7 - Sister Chromatid Exchange Result: Negative SAR / QSAR, Corticosteroids regarded as minimal risk for genotoxicity Result: Negative Sister Chromatid Exchange, V79 cells Result: Negative mammalian cell mutation assay (CHO/HGPRT forward mutation assay) Result: Negative
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
	ISOPROPYL ALCOHOL	Ames Result: Negative In vivo Micronucleus Result: Negative Species: Mouse SA7 - Sister Chromatid Exchange Result: Negative SAR / QSAR, Corticosteroids regarded as minimal risk for genotoxicity Result: Negative Sister Chromatid Exchange, V79 cells Result: Negative mammalian cell mutation assay (CHO/HGPRT forward mutation assay) Result: Negative
	BETAMETHASONE VALERATE	SA7 - Sister Chromatid Exchange Result: Negative SAR / QSAR, Corticosteroids regarded as minimal risk for genotoxicity Result: Negative Sister Chromatid Exchange, V79 cells Result: Negative mammalian cell mutation assay (CHO/HGPRT forward mutation assay) Result: Negative
	ISOPROPYL ALCOHOL	Sister Chromatid Exchange, V79 cells Result: Negative mammalian cell mutation assay (CHO/HGPRT forward mutation assay) Result: Negative
	BETAMETHASONE VALERATE	Sister Chromatid Exchange, V79 cells Result: Negative mammalian cell mutation assay (CHO/HGPRT forward mutation assay) Result: Negative
Carcinogenicity	Not classifiable as to carcinogenicity to humans. Paraffin oil is listed as a carcinogen by external agencies. These effects are suspected to be due to impurities that are not expected to be present in purified material used in this product.	
	ISOPROPYL ALCOHOL	2 year bioassay, Inhalation study Result: Negative Species: Rat Notes: UN SIDS evaluation: 2-Propanol Inhalation study Result: Negative Species: Mouse Notes: UN SIDS evaluation: 2-Propanol
IARC Monographs. Overall Evaluation of Carcinogenicity		
2-PROPENOIC ACID HOMOPOLYMER (CAS 9003-01-4) 3 Not classifiable as to carcinogenicity to humans.		
Reproductive toxicity	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.	
	ISOPROPYL ALCOHOL	< 1200 mg/kg/day Embryo-foetal development, Developmental neurotoxicity Result: Foetal NOAEL Species: Rabbit Notes: UN SIDS evaluation: 2-Propanol < 240 mg/kg/day Epidemiology Result: Maternal NOAEL Species: Human < 400 mg/kg/day Embryo-foetal development Result: Maternal NOAEL Species: Rabbit Notes: UN SIDS evaluation: 2-Propanol < 480 mg/kg/day Epidemiology Result: Foetal NOAEL Species: Human < 500 mg/kg/day Two generation study Result: Maternal toxicity; adverse effects on offspring. Species: Rat Notes: UN SIDS evaluation: 2-Propanol >= 0.1 mg/kg/day, sub-cutaneous administration Result: developmental effects Species: Mouse
	BETAMETHASONE VALERATE	>= 0.1 mg/kg/day, sub-cutaneous administration Result: developmental effects Species: Mouse

>= 0.1 mg/kg/day, sub-cutaneous administration
 Result: developmental effects
 Species: Rat
 >= 12 mcg/kg/day, sub-cutaneous administration
 Result: developmental effects
 Species: Rabbit

Specific target organ toxicity - single exposure None known.

ISOPROPYL ALCOHOL

Result: Narcosis
 Organ: Central Nervous System.

Specific target organ toxicity - repeated exposure Adrenal glands. Bone tissue. Immune system. May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not likely, due to the form of the product.

Chronic effects Prolonged inhalation may be harmful.

Further information Caution - Pharmaceutical agent.

12. Ecological information

Ecotoxicity No information is available about the potential of this product to produce adverse environmental effects. The product contains a substance which may cause long-term adverse effects in the environment.

Components	Species		Test Results
2-PROPENOIC ACID HOMOPOLYMER (CAS 9003-01-4)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	168 - 280 mg/l, 96 hours, Static test
Fish	EC50	Bluegill sunfish (Adult Lepomis macrochirus)	580 - 2000 mg/l, 96 hours, Static test
BETAMETHASONE VALERATE (CAS 2152-44-5)			
Acute			
	IC50	Activated sludge	> 1000 mg/l, 3 hours
	NOEC	Activated sludge	1000 mg/l, 3 hours
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	1.9 mg/l, 48 hours, Static test
	NOEC	Water flea (Daphnia magna)	0.5 mg/l, 48 hours, Static test
ISOPROPYL ALCOHOL (CAS 67-63-0)			
Aquatic			
Acute			
Activated Sludge Respiration	IC50	Industrial sludge	> 1000 mg/l, 3 hours
Algae	EC50	Green algae (Scenedesmus subspicatus)	> 1000 mg/l, 72 hours
Crustacea	EC50	Water flea (Daphnia magna)	13299 mg/l, 48 hours, Static test
Fish	EC50	Bluegill sunfish (Juvenile Lepomis macrochirus)	> 1400 mg/l, 96 hours, Static test
		Fathead minnow (Juvenile Pimephales promelas)	6550 - 10400 mg/l, 96 hours, Flow-through test
		Mosquito fish (Juvenile Gambusia affinis)	> 1400 mg/l, 96 hours, Static test

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

Persistence and degradability

Photolysis

Half-life (Photolysis-atmospheric)

ISOPROPYL ALCOHOL

3.1 - 14.5 Days Measured

Hydrolysis

Half-life (Hydrolysis-neutral)

BETAMETHASONE VALERATE

6.5 Days Measured, pH 7 Buffer Solution

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

ISOPROPYL ALCOHOL

0.26

BETAMETHASONE VALERATE

3.6 (Measured).

Mobility in soil**Mobility in general****Volatility****Henry's law**

ISOPROPYL ALCOHOL

0.000008 atm m³/mol Measured, 25 °C**Other adverse effects**

Not available.

13. Disposal considerations**Disposal instructions**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

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****UN number**

UN1993

UN proper shipping name

Flammable liquids, n.o.s. (BETNOVATE LOTION (CONTAINING ISOPROPYL ALCOHOL)), MARINE POLLUTANT

Transport hazard class(es)

3

Subsidiary class(es)

Not available.

Packing group

III

Special precautions for user

Not available.

Labels required

3

Special provisions

B1, B52, IB3, T4, TP1, TP29

Packaging exceptions

150

Packaging non bulk

203

Packaging bulk

242

IATA**UN number**

UN1993

UN proper shipping name

Flammable liquid, n.o.s. (BETNOVATE LOTION (CONTAINING ISOPROPYL ALCOHOL))

Transport hazard class(es)

3

Subsidiary class(es)

-

Packaging group

III

Environmental hazards

No

Labels required

Not available.

ERG Code

3L

Special precautions for user

Not available.

IMDG**UN number**

UN1993

UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (BETNOVATE LOTION (CONTAINING ISOPROPYL ALCOHOL))

Transport hazard class(es)

3

Subsidiary class(es)

-

Packaging group

III

Environmental hazards**Marine pollutant**

Yes

Labels required

Not available.

EmS

F-E, S-E

Special precautions for user

Not available.

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.

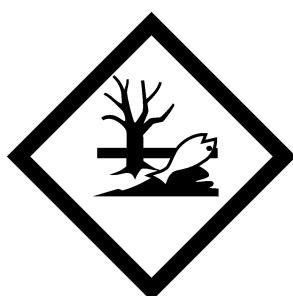
DOT



IATA; IMDG



Marine pollutant



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

ISOPROPYL ALCOHOL (CAS 67-63-0)

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 - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous chemical

No

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

ISOPROPYL ALCOHOL (CAS 67-63-0)

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

ISOPROPYL ALCOHOL (CAS 67-63-0) 500 lbs

US. Pennsylvania RTK - Hazardous Substances

ISOPROPYL ALCOHOL (CAS 67-63-0)

US. Rhode Island RTK

ISOPROPYL ALCOHOL (CAS 67-63-0)

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)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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 08-26-2013

Revision date 08-26-2013

Version # 16

Further information This material has not been assessed for HMIS or NFPA ratings.

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: Business Units
Composition / Information on Ingredients: Ingredients
Exposure Controls / Personal Protection:
Physical & Chemical Properties: Multiple Properties
Transport Information: