SAFETY DATA SHEET

1. Identification

Product identifier **SENSODYNE TOOTHPASTE (WITH TITANIUM DIOXIDE AND TRICLOSAN)**

Other means of identification Not available.

Synonym(s) IB1957 SENSODYNE PROTECCION TOTAL * SENSODYNE PROTECAO TOTAL * SENSODYNE TOOTHPASTE (WITH TRICLOSAN)

Recommended use Cosmetic Product

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	%
GLYCERIN	GLYCEROL GLYCERIN ANHYDROUS GLYCERINE GLYCERITOL GLYCYL ALCOHOL 1,2,3-PROPANETRIOL PROPANETRIOL GLYROL GLYSANIN TRIHYDROXYPROPANE 1,2,3-TRIHYDROXYPROPANE OSMOGLYN	56-81-5	<15
POTASSIUM NITRATE	NITRIC ACID POTASSIUM SALT NITRIC ACID POTASSIUM SALT (1:1)	7757-79-1	<=5.0
PEPPERMINT OIL	OIL OF PEPPERMINT ESSENTIAL OILS, MENTHA PIPERITA ESSENTIAL PEPPERMINT OIL MENTHA PIPERITA OIL PEPPERMINT LEAF OIL PEPPERMINT TERPENES	8006-90-4	<=1.0

Hazardous components

Chemical name	Common name and synonyms	CAS number	%
TITANIUM DIOXIDE	ANATASE BROOKITE RUTILE TITANIUM(IV) OXIDE TITANIUM PEROXIDE (TiO2) PIGMENT WHITE 6 TITANIA TITANIC OXIDE	13463-67-7	<=0.5
TRICLOSAN	PHENOL, 5-CHLORO-2-(2,4-DICHLOROPHENOXY)- IRGASAN CH 3565 IRGASAN DP 300 ETHER, 2'-HYDROXY-2,4,4'-TRICHLORODIPHENYL 2'-HYDROXY-2,4,4'-TRICHLORODIPHENYL ETHER 2,4,4'-TRICHLORO-2'-HYDROXYDIPHENYL ETHER	3380-34-5	<=0.3
MENTHOL	HEXAHYDROTHYMOL MENTHACAMPHOR MENTHOMENTHOL PEPPERMINT CAMPHOR NATURAL MENTHOL	89-78-1	<0.2
SODIUM FLUORIDE	SODIUM MONOFLUORIDE NATURAL VILLIAUMITE	7681-49-4	0.2 <= 0.4
Other components below reportable levels			>80.0

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

4. First-aid measures

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

Skin contact Wash off with soap and plenty of water.

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

Ingestion Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms/effects, acute and delayed Not available.

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).

5. Fire-fighting measures

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

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Wear suitable protective equipment.

Fire-fighting equipment/instructions Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Local authorities should be advised if significant spillages cannot be contained. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. Ensure adequate ventilation.

Methods and materials for containment and cleaning up Stop the flow of material, if this is without risk. Following product recovery, flush area with water. Collect spillage. 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 No special control measures required for the normal handling of this product. Normal room ventilation is expected to be adequate for routine handling of this product. Observe good industrial hygiene practices. Provide adequate ventilation.

Conditions for safe storage, including any incompatibilities Room temperature - normal conditions. Store in original tightly closed container.

8. Exposure controls/personal protection

Occupational exposure limits

GSK

Components	Type	Value	Note
MENTHOL (CAS 89-78-1)	8 HR TWA	1000 mcg/m3	
	OHC	1	SKIN SENSITISER
TRICLOSAN (CAS 3380-34-5)	OHC	1	

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

Components	Type	Value	Form
GLYCERIN (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
SODIUM FLUORIDE (CAS 7681-49-4)	PEL	2.5 mg/m3	
TITANIUM DIOXIDE (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.

US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value	Form
SODIUM FLUORIDE (CAS 7681-49-4)	TWA	2.5 mg/m3	Dust.

US. ACGIH Threshold Limit Values

Components	Type	Value
SODIUM FLUORIDE (CAS 7681-49-4)	TWA	2.5 mg/m3
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	10 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
SODIUM FLUORIDE (CAS 7681-49-4)	TWA	2.5 mg/m3

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
SODIUM FLUORIDE (CAS 7681-49-4)	3 mg/l	Fluoride	Urine	*
	2 mg/l	Fluoride	Urine	*

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

Appropriate engineering controls No special ventilation requirements.

Individual protection measures, such as personal protective equipment

Eye/face protection Do not get in eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.

Hand protection Not normally needed.

Other No special protective equipment required.

Respiratory protection No personal respiratory protective equipment normally required.

Thermal hazards Not available.

General hygiene considerations Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Paste.Pump/tube.

Color	Not available.
Odor	Not available.
Odor threshold	Not available.
pH	6.5 - 7.5
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Expected to be non-flammable based on components present.
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	38.5 % 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	Not available.
Conditions to avoid	None under normal conditions.
Incompatible materials	Not available.
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	None known. 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	Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics	None known. Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

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

Components	Species	Test Results
GLYCERIN (CAS 56-81-5)		
Acute		
Oral		
LD50	Rat	> 2000 mg/kg
MENTHOL (CAS 89-78-1)		
Acute		
Oral		
LD50	Rat	3200 mg/kg
PEPPERMINT OIL (CAS 8006-90-4)		
Acute		
Oral		
LD50	Rat	2426 mg/kg
TITANIUM DIOXIDE (CAS 13463-67-7)		
Acute		
Inhalation		
LC50	Rat	6820 mcg/m3
Oral		
LD50	Rat	> 24 g/kg
Chronic		
Inhalation		
LOEC	Rat	8.6 mg/m3, 1 years, TiO2 accumulated in interstitial macrophages, aggregated interstitial cells and particle laden macrophrages in lymphoid tissue.
NOAEC	Rat	250 mg/m3, 2 years, Highest dose
		5 mg/m3, 24 months
Subacute		
Inhalation		
LOEL	Rat	0.1 - 35 mg/m3, 4 weeks, Mild macrophage hyperplasia, no change in bronchio-alveolar lavage fluid.
NOAEC	Guinea pig	26 mg/m3, 3 weeks, No evidence of significant inflammation in respiratory tract.
Oral		
NOAEL	Rat	100000 ppm, 14 Day, Dietary study, highest dose tested.
Subchronic		
Inhalation		
LOEC	Rat	3.2 - 20 mg/m3, 8 min, Accumulation of TiO2 in macrophages and evidence of pulmonary inflammation.
TRICLOSAN (CAS 3380-34-5)		
Acute		
Dermal		
LD50	Rabbit	9300 mg/kg
Oral		
LD50	Rat	3700 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.

Corrosivity

TRICLOSAN

Acute dermal irritation, tested as a 10% solution
Result: Mild irritant
Species: Rabbit

Irritation Corrosion - Skin

TITANIUM DIOXIDE

Acute dermal irritation; OECD 404, Literature data
Result: Non-irritant
Species: Rabbit

Irritation Corrosion - Skin

MENTHOL	Literature data Result: Irritating to skin Species: Rabbit Notes: IUCLID data
TITANIUM DIOXIDE	Literature data Result: Non-irritant Species: Guinea pig Literature data Result: Non-irritant Species: Human

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

Eye

MENTHOL	Literature data Result: MIld-moderate Species: Rabbit
TITANIUM DIOXIDE	OECD 405, Literature data Result: Mild irritant Species: Rabbit

Respiratory sensitization Not available.

Skin sensitization Health injuries are not known or expected under normal use.

Sensitization

TITANIUM DIOXIDE	5 % Optimisation Test, Literature data - Vehicle: petrolatum Result: Negative Species: Guinea pig Test Duration: 48 hour exposure
MENTHOL	Buehler assay, Literature data Result: Negative Species: Guinea pig Notes: IUCLID data Epidemiology, Literature data Result: Low incidence of contact hypersensitivity. Notes: IUCLID data
TRICLOSAN	Method not specified, Literature data Result: Negative Species: Guinea pig
MENTHOL	Modified Draize, Literature data Result: Positive Species: Guinea pig Notes: IUCLID data Open repetitive dermal test, Literature data Result: Negative Species: Guinea pig Notes: IUCLID data
TITANIUM DIOXIDE	Patch test, Literature data Result: Negative Species: Human
TRICLOSAN	Patch test, Literature data: solutions and triclosan in petrolatum up to 25% tested Result: Negative Species: Human

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

MENTHOL	725 mg/kg In vivo-In vitro Replicative DNA synthesis Result: Positive Species: Rat Alkaline Elution Assay In Vitro, Literature data Result: Negative Notes: IUCLID data
TRICLOSAN	Ames Assay, Literature data Result: Negative
TITANIUM DIOXIDE	Ames, Literature data Result: Negative
MENTHOL	Ames, Literature dataLiterature data Result: Negative Notes: IUCLID data BlueScreen mammalian cell mutation assay, Literature data Result: Negative Notes: IUCLID data

TRICLOSAN	Chromosomal Aberration Assay In Vitro, CHO cells, Literature data Result: Negative
MENTHOL	Chromosomal Aberration Assay In Vitro, CHO cells, Literature data Result: Negative Notes: IUCLID data
	Chromosomal Aberration Assay In Vitro, human lymphocytes, Literature data Result: Negative Notes: IUCLID data
TRICLOSAN	Chromosomal aberration assay - Chinese hamster lung fibroblasts, Literature data Result: Positive
	Cytogenetic Analysis In Vivo, bone marrow, Literature data Result: Negative Species: Rat
MENTHOL	GreenScreen mammalian cell mutation assay, Literature data Result: Negative Notes: IUCLID data
TRICLOSAN	In vivo Somatic Mutation Spot Test, Literature data Result: Negative Species: Mouse
MENTHOL	L5178Y mouse lymphoma thymidine kinase locus assay, Literature data Result: Negative Notes: IUCLID data
TITANIUM DIOXIDE	Micronucleus Assay in vitro, CHO cells, Literature data Result: Negative
	Micronucleus Assay in vitro, cultured human peripheral lymphocytes, Literature data Result: Positive
MENTHOL	Micronucleus Test, Literature data Result: Negative Species: Mouse Notes: IUCLID data
TRICLOSAN	Mouse Lymphoma Cell (L5178Y) Mutation Assay, Literature data Result: Negative
MENTHOL	Mutation in Drosophila melanogaster, Literature data Result: Negative Notes: IUCLID data
TITANIUM DIOXIDE	Syrian Hamster Embryo (SHE) cell transformation assay Result: Negative
	WIL2-NS HPRT/ t-Thioguanidine - Human B-Cell lymphoblastoid, Literature data Result: Positive
TRICLOSAN	in vitro UDS assay, Literature data Result: Negative
MENTHOL	sister chromatid exchange, Literature data Result: Negative Notes: IUCLID data

Carcinogenicity Health injuries are not known or expected under normal use. Risk of cancer cannot be excluded with prolonged exposure. Titanium dioxide produced carcinogenic effects in a lifetime study in mice. High concentrations or doses administered over an extended period of time were required to produce adverse effects.

TITANIUM DIOXIDE	0.5 mg/m3, Literature data Result: Negative Species: Rat Test Duration: 24 months
	0.72 - 14.8 mg/m3, Literature data Result: Negative Species: Mouse
	10 - 250 mg/m3, Dietary study - Literature data. Result: Inflammation at all doses with alveolar/bronchiolar adenoma at the highest concentration. Species: Rat Test Duration: 24 months
TRICLOSAN	18 month bioassay, triclosan in diet; 10, 30, 100 or 200 mg/kg/day; liver tumours at 100 mg/kg/day or more; NOAEL = 30 mg/kg/day Result: Positive Species: Mouse

Carcinogenicity

TRICLOSAN	2 year bioassay, triclosan in diet; 300, 1000 or 3000 ppm Result: Negative Species: Rat
TITANIUM DIOXIDE	25000 - 50000 ppm, Dietary study Result: Negative Species: Mouse 25000 - 50000 ppm, Dietary study - Literature data. Result: Negative Species: Rat 7.2 - 14.8 mg/m3, Literature data Result: Lung tumour Species: Rat Test Duration: 24 months
MENTHOL	<= 1000 mg/kg/day, Literature data, dietary study. Result: Negative Species: Rat Test Duration: 103 weeks Notes: IUCLID data <= 2143 mg/kg/day, Literature data, dietary study. Result: Negative Species: Mouse Notes: IUCLID data

IARC Monographs. Overall Evaluation of Carcinogenicity

SODIUM FLUORIDE (CAS 7681-49-4)	3 Not classifiable as to carcinogenicity to humans.
TITANIUM DIOXIDE (CAS 13463-67-7)	2B Possibly carcinogenic to humans.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

MENTHOL	185 mg/kg/day Embryo-foetal development, Literature data Result: NOAEL-Highest dose. Species: Mouse Notes: IUCLID data 218 mg/kg/day Embryo-foetal development - Oral, Literature data Result: NOAEL-Highest dose. Species: Rat Notes: IUCLID data 405 mg/kg/day Embryo-foetal development - Oral, Literature data Result: NOAEL-Highest dose. Species: Hamster Notes: IUCLID data 475 mg/kg/day Embryo-foetal development - Oral, Literature data Result: NOAEL-Highest dose. Species: Rabbit Notes: IUCLID data
TRICLOSAN	Embryo-foetal development - Oral Result: Foetal NOAEL = 65 mg/kgday (higher doses associated with reduced foetal weights and live births per litter) Species: Rat Fertility, Male Result: LOAEL (hormonal and testicular effects) with >/= 10 mg/kg/day for 60 days; NOAEL = 5 mg/kg/day Species: Rat

Specific target organ toxicity - single exposure None known.

Specific target organ toxicity - repeated exposure None known.

TRICLOSAN	Repeat dose non-clinical studies Result: LOEL = 930 mg/kg/day x 31 days Species: Rat Organ: Liver

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

12. Ecological information

Ecotoxicity Contains a substance which causes risk of hazardous effects to the environment.

Components		Species	Test Results
POTASSIUM NITRATE (CAS 7757-79-1)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	490 mg/l, 48 hours, Static test
Fish	EC50	Bluegill sunfish (Adult Lepomis macrochirus)	420 mg/l, 96 hours, Static test
		Guppy (Juvenile Poecilia reticulata)	180 mg/l, 96 hours, Static test
		Mosquito fish (Adult Gambusia affinis)	22.5 mg/l, 96 hours, Static test
SODIUM FLUORIDE (CAS 7681-49-4)			
Acute			
	IC50	Activated sludge	2930 mg/L, 3 hours
Aquatic			
Acute			
Algae	EC50	Green algae (Selenastrum capricornutum)	272 mg/L, 96 hours
Crustacea	EC50	Water flea (Daphnia magna)	340 mg/L, 48 hours, Static test
Fish	EC50	Fathead minnow (Juvenile Pimephales promelas)	180 mg/L, 96 hours, Static renewal test
		Mosquito fish (Adult Gambusia affinis)	418 mg/L, 96 hours, Static test
		Rainbow trout (Juvenile Oncorhyncus mykiss)	108 mg/L, 96 hours, Static test
TITANIUM DIOXIDE (CAS 13463-67-7)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours, Static test
TRICLOSAN (CAS 3380-34-5)			
Acute			
	IC50	Activated sludge	6 mg/L
Aquatic			
Acute			
Algae	EC50	Green algae (Scenedesmus subspicatus)	0.0014 mg/L, 96 hours
	NOEC	Green algae (Scenedesmus subspicatus)	0.0007 mg/L, 96 hours
Crustacea	EC50	Water flea (Daphnia magna)	0.39 mg/L, 48 hours, Static test
Fish	EC50	Bluegill sunfish (Juvenile Lepomis macrochirus)	0.37 mg/L, 96 hours
		Fathead minnow (Juvenile Pimephales promelas)	0.26 mg/L, 96 hours, Static test
		Rainbow trout (Juvenile Oncorhyncus mykiss)	0.288 mg/L, 96 hours, Static test

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

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

GLYCERIN	-1.76
MENTHOL	3.4
TRICLOSAN	4.76

Bioconcentration factor (BCF)

SODIUM FLUORIDE	2.3 Measured
TRICLOSAN	2.7 - 44 Measured, Cyprinus carpio, carp

Mobility in soil No data available.

Mobility in general

Volatility

Henry's law

MENTHOL	0.000015 atm m^3/mol, 25 C Estimated

Volatility

Henry's law

TRICLOSAN	0 atm m3/mol Calculated

Other adverse effects None known.

13. Disposal considerations

Disposal instructions Do not allow this material to drain into sewers/water supplies. 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 Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number	UN3082
UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s. (SENSODYNE TOOTHPASTE (WITH TRICLOSAN)), MARINE POLLUTANT
Transport hazard class(es)	9
Subsidiary class(es)	Not available.
Packing group	III
Special precautions for user	Not available.
Labels required	9
Special provisions	8, 146, 335, IB3, T4, TP1, TP29
Packaging exceptions	155
Packaging non bulk	203
Packaging bulk	241
Qty limits cargo	No limit
Qty limits passenger	No limit

IATA

UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (SENSODYNE TOOTHPASTE (WITH TRICLOSAN))
Transport hazard class(es)	9
Subsidiary class(es)	-
Packaging group	III
Labels required	Not available.
ERG Code	9L
Passenger & cargo	Allowed.
Additional Information:	
Packaging Instruction	964
Pkg Inst cargo only	964
Pkg Inst passenger & cargo	Y964
SP see 44	A97,A158
Max net qty pkg	450 L
Max net qty pkg cargo only	450 L
Max net qty pkg LQ	30 kg G

IMDG

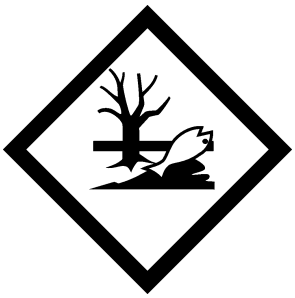
UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SENSODYNE TOOTHPASTE (WITH TRICLOSAN))
Transport hazard class(es)	9
Subsidiary class(es)	-
Packaging group	III
Environmental hazards	
Marine pollutant	Yes
Labels required	Not available.
EmS	F-A, S-F
Special 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 not known to be 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)

SODIUM FLUORIDE (CAS 7681-49-4) 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 - No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No
NFPA ratings	Health: 1 Flammability: 1 Instability: 0
HMIS® ratings	Health: 1* Flammability: 1 Physical hazard: 0

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

GLYCERIN (CAS 56-81-5)
POTASSIUM NITRATE (CAS 7757-79-1)
SODIUM FLUORIDE (CAS 7681-49-4)
TITANIUM DIOXIDE (CAS 13463-67-7)

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

POTASSIUM NITRATE (CAS 7757-79-1) 500 lbs

US. Pennsylvania RTK - Hazardous Substances

GLYCERIN (CAS 56-81-5)
POTASSIUM NITRATE (CAS 7757-79-1)
SODIUM FLUORIDE (CAS 7681-49-4)
TITANIUM DIOXIDE (CAS 13463-67-7)

US. Rhode Island RTK

POTASSIUM NITRATE (CAS 7757-79-1)
SODIUM FLUORIDE (CAS 7681-49-4)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

TITANIUM DIOXIDE (CAS 13463-67-7) Listed: September 2, 2011

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
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)	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

*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 03-10-2014

Version # 01

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

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

NFPA ratings
Health: 1
Flammability: 1
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.