SAFETY DATA SHEET

1. Identification

Product identifier **POLIDENT - FRESH CLEANSE (DENTURE CLEANER / BREATH FRESHENER)**

Other means of identification

Synonyms FRESH CLEANSE - LIQUAFOAM * PROJECT RAINBOW * MFC51023 * MFC50709 * DENTURE CLEANER, FORMULATED PRODUCT

Recommended use of the chemical and restrictions on use

Recommended use Medical Device

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.

Restrictions on use No other uses are advised.

Details of manufacturer or importer

Manufacturer

GlaxoSmithKline Australia
1061 Mountain Highway
Melbourne, Victoria 3155
Australia
Australia General Information (Normal Business Hours): (03) 9721 6000

TRANSPORTATION EMERGENCY NUMBERS
(available 24hrs/7days: multi-language response)
Australia Toll Free +(61) 2 9037 2994
International Toll Call +(1) 703 527 3887

2. Hazard(s) identification

Classification of the hazardous chemical

Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irritation	Category 2
	Sensitization, skin	Category 1
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 3

Label elements, including precautionary statements

Hazard symbol(s)

Exclamation mark

Signal word Warning

Hazard Statement(s) May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

Precautionary Statement(s)

Prevention Avoid breathing mist or vapour. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves. Wear eye/face protection.

Response	IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse.
Storage	Not available.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards which do not result in classification	Assume that this product is capable of sustaining combustion. See section 11 for additional information on health hazards.
Supplemental information	None.

3. Composition/information on ingredients

Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
GLYCERIN Glycerol GLYCERIN ANHYDROUS Glycerine GLYCERITOL GLYCYL ALCOHOL 1,2,3-Propanetriol PROPANETRIOL GLYROL GLYSANIN TRIHYDROXYPROPANE 1,2,3-TRIHYDROXYPROPANE OSMOGLYN	56-81-5	7
SESAME OIL BENNE OIL TEEL OIL GINGILLI OIL OILS, SESAME BENI OIL GINGELLY OIL TEAL OIL BENE OIL SIMSIM OIL TIL OIL UFUTA OIL GINGILI OIL SESAMUM INDICUM OIL	8008-74-0	5
D-SORBITOL Sorbitol L-GULITOL 1,2,3,4,5,6-HEXANEHEXOL D-SORBOL	50-70-4	4.0 - 5.0
SODIUM LAURETH SULFATE ALPHA-SULFO-OMEGA-(DODECYLOXY)POLY(OXY-1,2-ETHANEDIYL), SODIUM SALT GLYCOLS, POLYETHYLENE, MONO(HYDROGEN SULFATE), DODECYL ETHER, SODIUM SALT LAURETH SULPHATE SODIUM LAURYL ETHER SULFATE SODIUM SULFATE LAURYL ETHER SODIUM LAURETH SULPHATE	9004-82-4	3

L-MENTHOL CYCLOHEXANOL, 5-METHYL-2-(1-METHYLETHYL)-, (1R-(1ALPHA,2BETA,5ALPHA))- (1R-(1ALPHA,2BETA,5ALPHA))-5-METHYL-2-(1-METHYLETHYL)-CYCLOHEXANOL LEVOMENTHOL L-MENTHOL (L)-MENTHOL	2216-51-5	1.0 - 2.0
CORNMINT OIL TERPENELESS	68917-18-0	1.22
COCOAMIDOPROPYL BETAINE COCOAMIDO BETAINE N-(COCO ALKYL) AMIDO PROPYL DIMETHYL BETAINE COCONUT OIL AMIDOPROPYL BETAINE	61789-40-0	1
SODIUM BENZOATE Benzoic acid, sodium salt BENZOATE OF SODA SODUIM BENZOIC ACID	532-32-1	1
Benzoic acid BENZENECARBOXYLIC ACID BENZENEMETHANOIC ACID BENZENEFORMIC ACID BENZOATE CARBOXYBENZENE DRACYLIC ACID PHENYL CARBOXYLIC ACID PHENYLFORMIC ACID PHENYLCARBOXYLIC ACID E 210 HA 1 HA 1(ACID) RETARDEX RETARDER BA SOLVO POWDER TENN-PLAS OHS02720 RTECS DG0875000	65-85-0	<1.0
OIL OF SPEARMINT OILS, SPEARMINT CURLED MINT OIL SPEARMINT OIL	8008-79-5	<1.0
PEPPERMINT OIL OIL OF PEPPERMINT ESSENTIAL PEPPERMINT OIL PEPPERMINT LEAF OIL PEPPERMINT TERPENES	8006-90-4	<1.0
POLYETHYLENE GLYCOL 8000 ETHYLENE GLYCOL POLYMER ETHYLENE GLYCOL HOMOPOLYMER POLYOXYETHYLENE 8000 POLYGLYCOL E-8000	25322-68-3	<1.0
SACCHARIN 1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide ANHYDRO-O-SULFAMINEBENZOIC ACID BENZOIC SULPHINIDE O-BENZOYL SULFIMIDE SACCHARIN INSOLUBLE	81-07-2	<1.0

2,6-DI-TERT-BUTYL-P-CRESOL BUTYLATED HYDROXYTOLUENE 4-METHYL-2,6-DI-TERT-BUTYLPHENOL BUTYLHYDROXYTOLUENE DIBUTYLATED HYDROXYTOLUENE 2,6-DI-TERT-BUTYL-1-HYDROXY-4-METHYLBENZENE 3,5-DI-TERT-BUTYL-4-HYDROXYTOLUENE 2,6-BIS(1,1-DIMETHYLETHYL)-4-METHYLPHENOL 2,6-DI-TERT-BUTYL-4-METHYLPHENOL 2,6-TERT-BUTYL-4-METHYLPHENOL 2,6-DI-TERT-BUTYL-PARA-CRESOL	128-37-0	<0.1
ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT (ETHYLENEDIAMINETETRAACETIC ACID), DISODIUM SALT ACETIC ACID, (ETHYLENEDINITRILO)TETRA-, DISODIUM SALT CHELAPLEX DISODIUM EDETATE DISODIUM EDTA DISODIUM ETHYLENEDIAMINE TETRAACETATE DISODIUM SEQUESTRENE DISODIUM VERSENATE DISODIUM VERSENE EDETATE DISODIUM EDTA DISODIUM SALT ENDRATE DISODIUM N,N'-1,2-ETHYLENEDIYLBIS(N-(CARBOXYMETHYL)GLYCINE, DISODIUM SALT RTECS AH4375000 SELEKTON B2 SODIUM (DI) ETHYLENEDIAMINE TETRAACETATE TETRACEMATE DISODIUM	139-33-3	<0.1
Other components below reportable levels		70.0 - 75.0

4. First-aid measures

Description of necessary first aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist. If breathing is difficult, trained personnel should give oxygen. Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Immediately flush skin with plenty of water. Get medical attention if symptoms occur. Take off contaminated clothing and wash before reuse.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If eye irritation persists: Get medical advice/attention.
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting without medical advice. If ingestion of a large amount does occur, call a poison control centre immediately.
Personal protection for first-aid responders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Pre-placement and periodic health surveillance is not usually indicated. The final determination of the need for health surveillance should be determined by local risk assessment.
Symptoms caused by exposure	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.
Medical attention and special treatment	No specific antidotes are recommended. Treat according to locally accepted protocols. For additional guidance, refer to the local poison control information centre.

5. Fire-fighting measures

Extinguishing media

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.

Special protective equipment and precautions for fire fighters	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.
Hazchem Code	Not available.
General fire hazards	Assume that this product is capable of sustaining combustion.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapours or mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
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.
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. 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 to original containers for re-use. For waste disposal, see section 13.

7. Handling and storage

Precautions for safe handling	Avoid breathing mist or vapour. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.
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 and personal protection

Control parameters Follow standard monitoring procedures.

Occupational exposure limits

GSK

Components	Type	Value	Note
Benzoic acid (CAS 65-85-0)	OHC	2	PROVISIONAL
COCOAMIDOPROPYL BETAINE (CAS 61789-40-0)	OHC	1	PROVISIONAL
D-SORBITOL (CAS 50-70-4)	OHC	1	
ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT (CAS 139-33-3)	8 HR TWA	3000 mcg/m3	
	OHC	1	
L-MENTHOL (CAS 2216-51-5)	OHC	1	SKIN SENSITISER
POLYETHYLENE GLYCOL 8000 (CAS 25322-68-3)	OHC	1	
SACCHARIN (CAS 81-07-2)	8 HR TWA	5000 mcg/m3	
	OHC	1	
SODIUM BENZOATE (CAS 532-32-1)	8 HR TWA	5000 mcg/m3	

GSK

Components	Type	Value	Note
	OHC	1	

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value	Form
2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)	TWA	10 mg/m3	
GLYCERIN (CAS 56-81-5)	TWA	10 mg/m3	Inhalable mist.
SESAME OIL (CAS 8008-74-0)	TWA	10 mg/m3	Inhalable mist.

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value	Form
2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)	TWA	10 mg/m3	
GLYCERIN (CAS 56-81-5)	TWA	10 mg/m3	Inspirable dust.
SESAME OIL (CAS 8008-74-0)	TWA	10 mg/m3	Inspirable dust.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapor.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)	TWA	10 mg/m3	
GLYCERIN (CAS 56-81-5)	TWA	10 mg/m3	Mist.

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)	TWA	10 mg/m3	Inhalable fraction.
GLYCERIN (CAS 56-81-5)	TWA	50 mg/m3	Inhalable fraction.
POLYETHYLENE GLYCOL 8000 (CAS 25322-68-3)	TWA	1000 mg/m3	Inhalable fraction.

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

Appropriate engineering controls General ventilation normally adequate. 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.

Individual protection measures, for example personal protective equipment (PPE)

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

Skin protection

Hand protection For prolonged or repeated skin contact use suitable protective gloves.

Other Wear suitable protective clothing as protection against splashing or contamination.

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.

Hygiene measures For advice on suitable monitoring methods, seek guidance from a qualified environment, health and safety professional. 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	Liquid.
Colour	Not available.
Odour	Not available.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
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.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	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	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	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

11. Toxicological information

Information on possible routes of exposure

Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	May be irritating to the skin. Health injuries are not known or expected under normal use.
Eye contact	Direct contact with eyes may cause temporary irritation. Health injuries are not known or expected under normal use.
Symptoms related to exposure	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.
Acute toxicity	Substance likely to cause pharmacologically mediated or other adverse effects upon inhalation. May cause an allergic skin reaction. May irritate eyes and skin.

Components	Species	Test results
2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)		
Acute		
Oral		
LD50	Rat	890 mg/kg
COCOAMIDOPROPYL BETAINE (CAS 61789-40-0)		
Acute		
Oral		
LD50	Mouse	> 2000 mg/kg
D-SORBITOL (CAS 50-70-4)		
Acute		
Oral		
LD50	Rat	15.9 g/kg
ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT (CAS 139-33-3)		
Acute		
Oral		
LD50	Rat	> 2000 mg/kg
GLYCERIN (CAS 56-81-5)		
Acute		
Oral		
LD50	Rat	> 2000 mg/kg
L-MENTHOL (CAS 2216-51-5)		
Acute		
Oral		
LD50	Rat	3300 mg/kg
OIL OF SPEARMINT (CAS 8008-79-5)		
Acute		
Oral		
LD50	Rat	> 5000 mg/kg
PEPPERMINT OIL (CAS 8006-90-4)		
Acute		
Oral		
LD50	Rat	2426 mg/kg
POLYETHYLENE GLYCOL 8000 (CAS 25322-68-3)		
Acute		
Oral		
LD50	Rat	> 20 g/kg
SACCHARIN (CAS 81-07-2)		
Acute		
Oral		
LD50	Mouse	17 g/kg
SODIUM LAURETH SULFATE (CAS 9004-82-4)		
Acute		
Oral		
LD50	Rat	1288 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. Prolonged skin contact may cause temporary irritation.

Serious eye damage/irritation Direct contact with eyes may cause temporary irritation. Health injuries are not known or expected under normal use.

Respiratory or skin sensitisation

Skin sensitisation Health injuries are not known or expected under normal use. May cause an allergic skin reaction.

Buehler Test

BENZOIC ACID	Result: negative Species: Guinea pig

Maximisation assay (Magnusson and Kligman)

BENZOIC ACID	Result: negative Species: Guinea pig

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

Carcinogenicity Not classifiable as to carcinogenicity to humans.

ACGIH Carcinogens

2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)	A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)	3 Not classifiable as to carcinogenicity to humans.
SACCHARIN (CAS 81-07-2)	3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Contains no ingredient listed as toxic to reproduction

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not available.

Other information None known.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Components		Species	Test results
2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	1.44 mg/l, 48 hours Static test
Fish	EC50	Orange-red killfish (Adult Oryzias latipes)	5.3 mg/l, 48 hours Static test
Benzoic acid (CAS 65-85-0)			
Acute			
	IC50	Activated sludge	> 1000 mg/l, 3 hours
Aquatic			
Acute			
Algae	EC50	Green algae (Scenedesmus quadricauda)	> 10 mg/l, 14 days Static test
Crustacea	EC50	Water flea (Daphnia magna)	500 mg/l, 24 hours
Fish	EC50	Mosquito fish (Juvenile Gambusia affinis)	180 mg/l, 96 hours Static test
Microtox	EC50	Microtox	16.9 mg/l, 30 minutes
COCOAMIDOPROPYL BETAINE (CAS 61789-40-0)			
Aquatic			
Acute			
Algae	EC50	Green algae (Scenedesmus subspicatus)	0.55 mg/l, 96 hours
	NOEC	Green algae (Scenedesmus subspicatus)	0.09 mg/l, 96 hours
Crustacea	EC50	Water flea (Daphnia magna)	6.5 mg/l, 48 hours
	NOEC	Water flea (Daphnia magna)	1.6 mg/l, 48 hours
Fish	EC50	Zebra fish (Adult Brachydanio rerio)	2 mg/l, 96 hours semi-static test conditions

Components		Species	Test results
	NOEC	Zebra fish (Adult Brachydanio rerio)	1.7 mg/l, 96 hours semi-static test conditions
Microtox	MIC	Pseudomonas	> 3000 mg/l, 16 hours
Chronic			
Crustacea	LOEC	Water flea (Daphnia magna)	3.6 mg/l, 21 days
	NOEC	Water flea (Daphnia magna)	0.9 mg/l, 21 days
ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT (CAS 139-33-3)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	19.6 mg/l, 48 hours Static test
	NOEC	Water flea (Daphnia magna)	3.7 mg/l, 48 hours Static test
Fish	EC50	Bluegill sunfish (Adult Lepomis macrochirus)	47.5 mg/l, 96 hours Static test
		Channel catfish (Adult Ictalurus punctatus)	148.4 mg/l, 96 hours Static test
		Fathead minnow (Adult Pimephales promelas)	68.8 mg/l, 96 hours Static test
L-MENTHOL (CAS 2216-51-5)			
Aquatic			
Acute			
Fish	EC50	Fathead minnow (Juvenile Pimephales promelas)	18.8 mg/l, 96 hours Flow-through test
		Guppy (Juvenile Poecilia reticulata)	15.6 mg/l, 14 days
		Orange-red killfish (Adult Oryzias latipes)	26 mg/l, 48 hours Static renewal test
POLYETHYLENE GLYCOL 8000 (CAS 25322-68-3)			
Aquatic			
Acute			
Fish	EC50	Goldfish (Adult Carassius auratus)	> 50000 mg/l, 24 hours
Microtox	EC50	Microtox	> 100000 mg/l, 15 minutes
SACCHARIN (CAS 81-07-2)			
Aquatic			
Acute			
Fish	EC50	Fathead minnow (Adult Pimephales promelas)	15000 mg/l, 96 hours
SODIUM BENZOATE (CAS 532-32-1)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	> 100 mg/l, 96 hours Static test
Fish	EC50	Fathead minnow (Juvenile Pimephales promelas)	484 mg/l, 96 hours Flow-through test
SODIUM LAURETH SULFATE (CAS 9004-82-4)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	3.12 mg/l, 48 hours

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

Persistence and degradability

Photolysis

Half-life (Photolysis-atmospheric)

Benzoic acid	< 2 Days Estimated
L-MENTHOL	16 Hours Estimated

Photolysis

Half-life (Photolysis-atmospheric)

SACCHARIN	3 Days Estimated

UV/visible spectrum wavelength

Benzoic acid	279 nm

Biodegradability

Percent degradation (Aerobic biodegradation-inherent)

Benzoic acid	> 90 %, 2 days Modified Zahn-Wellens, Activated sludge
COCOAMIDOPROPYL BETAINE	97 %, 28 days Modified Zahn-Wellens, DOC removal., Activated sludge 99 %, 28 days Modified Zahn-Wellens, DOC removal., Activated sludge
ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT	37 %, 14 days Zahn-Wellens, Activated sludge

Percent degradation (Aerobic biodegradation-ready)

2,6-DI-TERT-BUTYL-P-CRESOL	4.5 %, 28 days Modified MITI test, Activated sludge < 10 %, 20 Days Closed Bottle test, Residential sludge
COCOAMIDOPROPYL BETAINE	100 %, 20 Days Modified Sturm test., Activated sludge 84 %, 30 days Closed Bottle test, Activated sludge
ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT	28 %, 28 days Sturm test
L-MENTHOL	0 %, 28 days
SODIUM BENZOATE	100 %, 28 days Modified OECD Screening Test (OECD 301E), Sea water 90 %, 7 days Modified Sturm test., Activated sludge
SODIUM LAURETH SULFATE	100 % River die away, River water

Percent degradation (Aerobic biodegradation-soil)

Benzoic acid	50 %, 7 days
ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT	13 - 45 %, 15 weeks

Percent degradation (Anaerobic biodegradation)

SODIUM BENZOATE	93 %, 7 days Other degradation test system, Mixed Residential/Industrial

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Benzoic acid	1.87
D-SORBITOL	-2.2
GLYCERIN	-1.76
L-MENTHOL	3.3
SACCHARIN	0.91
SODIUM BENZOATE	1.89

Bioconcentration factor (BCF)

2,6-DI-TERT-BUTYL-P-CRESOL	230 - 2500 Measured, Cyprinus carpio, carp
D-SORBITOL	1 Estimated
ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT	0.8 - 1.8 Measured, Lepomis macrochirus, bluegill sunfish
L-MENTHOL	1 - 15 Measured, Cyprinus carpio, carp
SACCHARIN	3 Estimated

Mobility in soil Not available.

Adsorption

Soil/sediment sorption - log Koc

Benzoic acid	2.26 Measured
D-SORBITOL	0.3 Estimated
L-MENTHOL	3.18 Estimated
SACCHARIN	1.88 Estimated
SODIUM BENZOATE	1.16 Calculated

Volatility

Henry's law

2,6-DI-TERT-BUTYL-P-CRESOL	0.000004, 25 Estimated
Benzoic acid	0 atm m^3/mol Estimated
D-SORBITOL	0 atm m^3/mol Estimated

Volatility

Henry's law

L-MENTHOL	0.000015 atm m^3/mol Estimated
SACCHARIN	0 atm m^3/mol Estimated

Other adverse effects Not available.

13. Disposal considerations

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

Residual waste 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

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

15. Regulatory information

Safety, health and environmental regulations

National regulations This Material Safety Data Sheet was prepared in accordance with the Australia National Code of Practice for the Preparation of Material Safety Data Sheets (NOHSC: 2011.)

Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B

PEPPERMINT OIL (CAS 8006-90-4)	Low toxicity. General: Any use

Australia Medicines & Poisons Appendix C

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix D

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix E

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix F

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix G

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix H

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix J

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix K

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 2

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 3

POLYETHYLENE GLYCOL 8000 (CAS 25322-68-3)	in oral preparations Exception may apply, see the regulation for relevance.

Australia Medicines & Poisons Schedule 4

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 5

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 6

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 7

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 8

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 9

Poisons schedule number not allocated.

High Volume Industrial Chemicals (HVIC)

D-SORBITOL (CAS 50-70-4)	1000 - 9999 TONNES See the regulation for additional information.
GLYCERIN (CAS 56-81-5)	1000 - 9999 TONNES See the regulation for additional information.
SODIUM LAURETH SULFATE (CAS 9004-82-4)	1000 - 9999 TONNES See the regulation for additional information.

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

Not listed.

National Pollutant Inventory (NPI) substance reporting list

Not listed.

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Resricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

Restricted Carcinogenic Substances

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

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)	Yes
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)	Yes
New Zealand	New Zealand Inventory	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*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

Issue date	18-August-2014
Revision date	18-August-2014
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: Product and Company Identification Composition / Information on Ingredients: Undisclosed Ingredient Statement Physical & Chemical Properties: Transport Information: Agency Name, Packaging Type, and Transport Mode Selection Regulatory Information: Risk Phrases - Class. GHS: Classification