SAFETY DATA SHEETS

This SDS packet was issued with item:

078364916

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078883473

SAFETY DATA SHEET

1. Identification

Product identifier **BIOTENE MOUTHWASH**

Other means of identification

Synonyms MFC: LACLEDE 30600064L BIOTENE DRY MOUTH ORAL RINSE * MFC02600 BIOTENE REGULAR MOUTHWASH EU * MFC04360 BIOTENE PBF ORAL RINSE / MOUTH WASH WITH OPTAMINT FRUITY BUBBLE * MFC 04301 * MFC 04302 * MFC 04304 * BIOTENE PBF MOUTHWASH * FORMULATION CODE 30602574L * BIOTENE ORIGINAL MOUTHWASH (OPTAMINT PEPPERMINT) * BIOTENE FLAVOUR FREE MOUTHWASH * BIOTENE MOUTHWASH 95% BASE * BIOTENE DRY MOUTH MOUTHWASH * BIOTENE ORIGINAL ORAL RINSE / MOUTH WASH (S. AROMA CLINICAL) * BIOTENE ORIGINAL FLAVOUR FREE ORAL RINSE / MOUTH WASH (S. AROMA CLINICAL) * BIOTENE ORIGINAL ORAL RINSE / MOUTH WASH - 95% BASE (S. AROMA CLINICAL) * ORAL CARE, FORMULATED PRODUCT

Recommended use Oral Care

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

COMPANY NAME GlaxoSmithKline US

Address: 5 Moore Drive
Research Triangle Park, NC 27709 USA

Telephone: +1-888-825-5249 (General Inquiries)

Email: msds@gsk.com

Website: www.gsk.com

EMERGENCY CONTACTS

VERISK 3E GLOBAL INCIDENT RESPONSE

Telephone: +(1) 760 476 3971 (In country)
+(1) 760 476 3962 or +(1) 866 519 4752 (International)
24/7; multi-language response

Contract Number: 334878

2. Hazard(s) identification

Classified hazards

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

Label elements

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

Hazard(s) not otherwise classified (HNOC)

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

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
PROPYLENE GLYCOL	1,2-PROPANEDIOL 1,2-DIHYDROXYPROPANE 2-HYDROXYPROPANOL ISOPROPYLENE GLYCOL METHYLETHYLENE GLYCOL METHYLETHYL GLYCOL MONOPROPYLENE GLYCOL 2,3-PROPANEDIOL ALPHA-PROPYLENE GLYCOL 1,2-PROPYLENE GLYCOL (RS)-1,2-PROPANEDIOL 1,2-(RS)-PROPANEDIOL 1,2-PROPANDIOL DL-1,2-PROPANEDIOL DL-PROPYLENE GLYCOL PROPANE-1,2-DIOL (PROPYLENE GLYCOL) PROPANE-1-2-DIOL PROPANEDIOL,1,2-	57-55-6	3 - 14
XYLITOL	D-XYLITOL 1,2,3,4,5-PENTAHYDROXYPENTANE KLINIT KYLIT XYLITE XYLITON BP-706	87-99-0	7 - 8
GLYCEROL	GLYCERINE 1,2,3-PROPANETRIOL GLYCYL ALCOHOL TRIHYDROXYPROPANE 1,2,3-TRIHYDROXYPROPANE GLYCERIN, ANHYDROUS GLYCERIN 1,2,3-PROPANTRIOL	56-81-5	0 - 10
HYDROXYETHYL CELLULOSE	CELLULOSE, 2-HYDROXYETHYL ETHER CELLOSIZE 2-HYDROXYETHYL ETHER CELLULOSE NATROSOL 2-HYDROXYETHYL CELLULOSE HYDROXYETHYL ETHER CELLULOSE CELLULOSE HYDROXYETHYLATE CELLULOSE HYDROXYETHYL ETHER OHS80130 RTECS FJ5958000 NATROSOL 250G NATROSOL 250M	9004-62-0	< 1
SODIUM BENZOATE	BENZOIC ACID, SODIUM SALT BENZOATE OF SODA SODUIM BENZOIC ACID	532-32-1	0.5
MUTANASE			0 - 0.2
OPTAMINT FRUITY BUBBLE MW 413027		Unassigned	< 0.2

Chemical name	Common name and synonyms	CAS number	%
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	< 0.1
CALCIUM LACTATE	PROPANOIC ACID, 2-HYDROXY-, CALCIUM SALT (2:1) LACTIC ACID (2:1), CALCIUM SALT 2-HYDROXYPROPANOIC ACID, CALCIUM SALT (2:1) CALCIUM 2-HYDROXYPROPIONATE CALCIUM LACTATE, ANHYDROUS CALPHOSAN	814-80-2	< 0.1
DEXTRANASE		9025-70-1	0 - 0.1
GLUCOSE OXIDASE		9001-37-0	< 0.1
LACTOFERRIN			< 0.1
LACTOPEROXIDASE	peroxydase	9003-99-0	< 0.1
LYSOZYME			< 0.1
METHYL PARABEN	GR30517X METHYL P-HYDROXYBENZOATE P-HYDROXYBENZOIC ACID, METHYL ESTER 4-HYDROXYBENZOIC ACID, METHYL ESTER METHYL P-OXYBENZOATE METHYL PARAHYDROXYBENZOATE	99-76-3	0 - 0.1
POTASSIUM THIOCYANATE	POTASSIUM ISOTHIOCYANATE THIOCARA PHODA-NIDE POTASSIUM SULFOCYANATE POTASSIUM RHODANIDE POTASSIUM RHODANATE ATERO-CYN ARTEROCYN KYONATE RHOCYN RODANCA P-317 OHS19640 RTECS XL1925000 166 (GW ACN)	333-20-0	< 0.1

Chemical name	Common name and synonyms	CAS number	%
PROPYL PARABEN	PROPYL P-HYDROXYBENZOATE PROTABEN 4-HYDROXYBENZOIC ACID, PROPYL ESTER P-HYDROXYBENZOIC ACID, PROPYL ESTER PASEPTOL PARASEPT PROPYL ASEPTOFORM PROPYL P-OXYBENZOATE PROPYL-4-HYDROXYBENZOATE N-PROPYL P-HYDROXYBENZOATE P-HYDROXYPROPYL BENZOATE Propyl 4-hydroxybenzoate Propyl Parahydroxybenzoate	94-13-3	0 - 0.1
SODIUM PHOSPHATE, MONOBASIC	MONOSODIUM PHOSPHATE SODIUM DIHYDROGEN PHOSPHATE MONOSODIUM DIHYDROGEN PHOSPHATE SODIUM BIPHOSPHATE MONOSODIUM ORTHOPHOSPHATE PHOSPHORIC ACID, MONOSODIUM SALT MONOBASIC SODIUM PHOSPHATE MONOSODIUM HYDROGEN PHOSPHATE SODIUM DIPHOSPHATE ANHYDROUS SODIUM PRIMARY PHOSPHATE SODIUM PHOSPHATE	7558-80-7	< 0.1
ZINC GLUCONATE	BIS(D-GLUCONATO-O(SUP1),O(SUP2)Z INC ZINC, BIS(D-GLUCONATO-O(SUP1),O(SUP2) GLUCONAL ZN ZINC, BIS(D-GLUCONATO-O(1),O(2))-ZYMIZINC GLUCONIC ACID, ZINC SALT D-GLUCONIC ACID, ZINC COMPLEX	4468-02-4	< 0.1
Other components below reportable levels			70 - < 80

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

4. First-aid measures

Inhalation Move to fresh air. If breathing is difficult, trained personnel should give oxygen. Call a physician if symptoms develop or persist. 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. Take off contaminated clothing and wash before reuse. Get medical attention if symptoms occur.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion If swallowed, rinse mouth with water (only if the person is conscious). If ingestion of a large amount does occur, call a poison control center immediately. Do not induce vomiting without advice from poison control center.

Most important symptoms/effects, acute and delayed Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed No specific antidotes are recommended. Treat according to locally accepted protocols. For additional guidance, refer to the current prescribing information or to the local poison control information center.

General information In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

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

Unsuitable extinguishing media Water.

Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	This product will support combustion at elevated temperatures.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. 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.
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. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. No special control measures required for the normal handling of this product. Avoid prolonged exposure. Use care in handling/storage.
Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks and open flame. Store in original tightly closed container.

8. Exposure controls/personal protection

Occupational exposure limits

GSK

Components	Type	Value	Note
BENZOIC ACID (CAS 65-85-0)	OHC	2	PROVISIONAL
CALCIUM LACTATE (CAS 814-80-2)	8 HR TWA	5000 mcg/m3	
	OHC	1	
HYDROXYETHYL CELLULOSE (CAS 9004-62-0)	OHC	2	>100 - </=1000 mcg/m3 PROVISIONAL
POTASSIUM THIOCYANATE (CAS 333-20-0)	8 HR TWA	5000 mcg/m3	
	OHC	1	
PROPYL PARABEN (CAS 94-13-3)	8 HR TWA	5000 mcg/m3	
	OHC	1	
SODIUM BENZOATE (CAS 532-32-1)	8 HR TWA	5000 mcg/m3	
SODIUM PHOSPHATE, MONOBASIC (CAS 7558-80-7)	OHC	1	
XYLITOL (CAS 87-99-0)	OHC	1	>1000 - </=5000 mcg/m3
ZINC GLUCONATE (CAS 4468-02-4)	OHC	2	

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

Components	Type	Value	Form
GLYCEROL (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value	Form
PROPYLENE GLYCOL (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.

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

Exposure guidelines

Appropriate engineering controls General ventilation normally adequate.

Individual protection measures, such as personal protective equipment

Eye/face protection Not normally needed. If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection Not normally needed. For prolonged or repeated skin contact use suitable protective gloves.

Other Not normally needed. Wear suitable protective clothing as protection against splashing or contamination.

Respiratory protection 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 Wear appropriate thermal protective clothing, when necessary.

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

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Bottle.

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 Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

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	Keep away from heat, sparks and open flame. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	None known. Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Health injuries are not known or expected under normal use.
Eye contact	Health injuries are not known or expected under normal use. Direct contact with eyes may cause temporary irritation.
Ingestion	Health injuries are not known or expected under normal use. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Components	Species	Test Results
METHYL PARABEN (CAS 99-76-3)		
Acute		
Oral		
LD50	Mouse	> 8 g/kg
PROPYL PARABEN (CAS 94-13-3)		
Acute		
Oral		
LD50	Rat	> 2000 mg/kg
SODIUM BENZOATE (CAS 532-32-1)		
Acute		
Oral		
LD50	Rat	2000 mg/kg
SODIUM PHOSPHATE, MONOBASIC (CAS 7558-80-7)		
Acute		
Oral		
LD50	Rat	8290 mg/kg
ZINC GLUCONATE (CAS 4468-02-4)		
Acute		
Oral		
LD50	Mouse	> 1290 mg/kg

Components	Species	Test Results
	Rat	> 5000 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

SODIUM BENZOATE — OECD 404
Result: Negative
Species: Rabbit

Irritation Corrosion - Skin: P.I.I. value

ZINC GLUCONATE — 0

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

Eye

SODIUM BENZOATE — Acute ocular irritation; OECD 405
Result: Mild irritant
Species: Rabbit

Respiratory or skin sensitization

Respiratory sensitization No studies have been conducted.

Skin sensitization None known. This product is not expected to cause skin sensitization.

Buehler test

BENZOIC ACID — Result: Negative
Species: Guinea pig

Maximisation assay (Magnusson and Kligman)

BENZOIC ACID — Result: Negative
Species: Guinea pig

Sensitization

SODIUM BENZOATE — Local lymph node assay
Result: Negative
Species: Mouse

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

Mutagenicity

SODIUM BENZOATE — Ames
Result: Negative
Chromosomal aberration assay
Result: Negative
Species: Rat

Carcinogenicity Not classifiable as to carcinogenicity to humans. Carcinogenic effects are not expected as a result of occupational exposure.

SODIUM BENZOATE — 2 year study, Male + Female
Result: Negative - dietary
Species: Rat

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Contains no ingredient listed as toxic to reproduction.

Reproductivity

SODIUM BENZOATE — Embryofetal Development
Result: Negative
Reproduction/Fertility Study
Result: Negative
Species: Rat

Specific target organ toxicity - single exposure Not assigned.

Specific target organ toxicity - repeated exposure Not assigned.

Aspiration hazard Not established.

Further information Occupational exposure to the substance or mixture may cause adverse effects.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
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
METHYL PARABEN (CAS 99-76-3)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	11.2 mg/l, 48 hours
Fish	LC50	Medaka, high-eyes (Oryzias latipes)	59.5 mg/l, 96 hours
Chronic			
Crustacea	NOEC	Water flea (Daphnia magna)	0.2 mg/l, 21 days OECD 211
PROPYLENE GLYCOL (CAS 57-55-6)			
Acute			
	IC50	Activated sludge	> 1000 mg/l, 3 hours
Aquatic			
Acute			
Algae	EC50	Green algae (Selenastrum capricornutum)	19000 mg/l, 14 days
	NOEC	Green algae (Selenastrum capricornutum)	15000 mg/l, 14 days
Crustacea	EC50	Daphnia	43500 mg/l, 48 hours
	NOEC	Daphnia	28500 mg/l, 48 hours
Fish	EC50	Fathead minnow (Adult Pimephales promelas)	51400 mg/l, 96 hours Static test
		Rainbow trout (Adult Oncorhyncus mykiss)	51600 mg/l, 96 hours Static test
	NOEC	Fathead minnow (Adult Pimephales promelas)	41000 mg/l, 96 hours Static test
		Rainbow trout (Adult Oncorhyncus mykiss)	42000 mg/l, 96 hours Static test
Microtox	EC50	Microtox	51400 mg/l, 30 minutes
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

Components		Species	Test Results
SODIUM PHOSPHATE, MONOBASIC (CAS 7558-80-7)			
Aquatic			
Acute			
Fish	EC50	Golden ide/orfe (Adult Leuciscus idus)	> 2400 mg/l, 48 hours Static test
		Mosquito fish (Adult Gambusia affinis)	186 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-aqueous)

PROPYLENE GLYCOL	1.3 - 2.3 Years Estimated

Half-life (Photolysis-atmospheric)

BENZOIC ACID	< 2 Days Estimated
PROPYLENE GLYCOL	32 Hours 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
PROPYLENE GLYCOL	62 %, 5 days BOD5, Activated sludge 79 %, 20 Days BOD20, Activated sludge
XYLITOL	82 %, 14 days BOD 14, Activated sludge

Percent degradation (Aerobic biodegradation-ready)

METHYL PARABEN	89 % , 28 days, OECD 301B
SODIUM BENZOATE	100 %, 28 days Modified OECD Screening Test (OECD 301E), Sea water 90 %, 7 days Modified Sturm test., Activated sludge

Percent degradation (Aerobic biodegradation-soil)

BENZOIC ACID	50 %, 7 days

Percent degradation (Anaerobic biodegradation)

PROPYLENE GLYCOL	100 %, 9 days
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
GLYCEROL	-1.76
METHYL PARABEN	1.96
PROPYL PARABEN	3.04
PROPYLENE GLYCOL	-1.35
SODIUM BENZOATE	1.89

Bioconcentration factor (BCF)

PROPYLENE GLYCOL	< 1 Estimated

Mobility in soil

Adsorption

Soil/sediment sorption - log Koc

BENZOIC ACID	2.26 Measured
SODIUM BENZOATE	1.16 Calculated

Mobility in general

Volatility

Henry's law

BENZOIC ACID	0 atm m^3/mol Estimated
PROPYLENE GLYCOL	0 atm m^3/mol Estimated

Distribution

Octanol/water distribution coefficient log DOW

PROPYL PARABEN	3.04

Other adverse effects Not available.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not discharge into drains, water courses or onto the ground. Dispose in accordance with all applicable 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). Avoid discharge into water courses or onto the ground.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as a dangerous good.

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 established.

15. Regulatory information

US federal regulations

Toxic Substances Control Act (TSCA)

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

BENZOIC ACID (CAS 65-85-0)	Listed.
ZINC GLUCONATE (CAS 4468-02-4)	Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act (SDWA)	Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

TRADE SECRET (CAS Proprietary)	Other Flavoring Substances with OSHA PEL's

US state regulations

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.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

TRADE SECRET (CAS Proprietary)

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
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	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 04-26-2018

Revision date 05-17-2019

Version # 07

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

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.

Revision information Toxicological information: Reproductivity

SAFETY DATA SHEET

1. Identification

Product identifier **BIOTENE MOUTHWASH**

Other means of identification

Synonyms MFC: LACLEDE 30600064L BIOTENE DRY MOUTH ORAL RINSE * MFC02600 BIOTENE REGULAR MOUTHWASH EU * MFC04360 BIOTENE PBF ORAL RINSE / MOUTH WASH WITH OPTAMINT FRUITY BUBBLE * MFC 04301 * MFC 04302 * MFC 04304 * BIOTENE PBF MOUTHWASH * FORMULATION CODE 30602574L * BIOTENE ORIGINAL MOUTHWASH (OPTAMINT PEPPERMINT) * BIOTENE FLAVOUR FREE MOUTHWASH * BIOTENE MOUTHWASH 95% BASE * BIOTENE DRY MOUTH MOUTHWASH * BIOTENE ORIGINAL ORAL RINSE / MOUTH WASH (S. AROMA CLINICAL) * BIOTENE ORIGINAL FLAVOUR FREE ORAL RINSE / MOUTH WASH (S. AROMA CLINICAL) * BIOTENE ORIGINAL ORAL RINSE / MOUTH WASH - 95% BASE (S. AROMA CLINICAL) * ORAL CARE, FORMULATED PRODUCT

Recommended use Oral Care

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

CHEMTREC EMERGENCY PHONE NUMBERS -
TRANSPORT EMERGENCIES:
Customer Number: CCN9484
US / International toll call +1 703 527 3887
available 24 hrs/7 days; multi-language response

2. Hazard(s) identification

Classified hazards

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

Label elements

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

Hazard(s) not otherwise classified (HNOC)

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

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
PROPYLENE GLYCOL	1,2-PROPANEDIOL 1,2-DIHYDROXYPROPANE 2-HYDROXYPROPANOL ISOPROPYLENE GLYCOL METHYLETHYLENE GLYCOL METHYLETHYL GLYCOL MONOPROPYLENE GLYCOL 2,3-PROPANEDIOL ALPHA-PROPYLENE GLYCOL 1,2-PROPYLENE GLYCOL (RS)-1,2-PROPANEDIOL 1,2-(RS)-PROPANEDIOL 1,2-PROPANDIOL DL-1,2-PROPANEDIOL DL-PROPYLENE GLYCOL PROPANE-1,2-DIOL (PROPYLENE GLYCOL) PROPANE-1-2-DIOL PROPANEDIOL,1,2-	57-55-6	3 - 14
XYLITOL	D-XYLITOL 1,2,3,4,5-PENTAHYDROXYPENTANE KLINIT KYLIT XYLITE XYLITON BP-706	87-99-0	7 - 8
GLYCEROL	GLYCERINE 1,2,3-PROPANETRIOL GLYCYL ALCOHOL TRIHYDROXYPROPANE 1,2,3-TRIHYDROXYPROPANE GLYCERIN, ANHYDROUS GLYCERIN 1,2,3-PROPANTRIOL	56-81-5	0 - 10
SODIUM BENZOATE	BENZOIC ACID, SODIUM SALT BENZOATE OF SODA SODUIM BENZOIC ACID	532-32-1	0.5
MUTANASE			0 - 0.2
OPTAMINT FRUITY BUBBLE MW 413027		Unassigned	< 0.2
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	< 0.1
CALCIUM LACTATE	PROPANOIC ACID, 2-HYDROXY-, CALCIUM SALT (2:1) LACTIC ACID (2:1), CALCIUM SALT 2-HYDROXYPROPANOIC ACID, CALCIUM SALT (2:1) CALCIUM 2-HYDROXYPROPIONATE CALCIUM LACTATE, ANHYDROUS CALPHOSAN	814-80-2	< 0.1

Chemical name	Common name and synonyms	CAS number	%
DEXTRANASE		9025-70-1	0 - 0.1
GLUCOSE OXIDASE		9001-37-0	< 0.1
LACTOFERRIN			< 0.1
LACTOPEROXIDASE	peroxydase	9003-99-0	< 0.1
LYSOZYME			< 0.1
METHYL PARABEN	GR30517X METHYL P-HYDROXYBENZOATE P-HYDROXYBENZOIC ACID, METHYL ESTER 4-HYDROXYBENZOIC ACID, METHYL ESTER METHYL P-OXYBENZOATE METHYL PARAHYDROXYBENZOATE	99-76-3	0 - 0.1
POTASSIUM THIOCYANATE	POTASSIUM ISOTHIOCYANATE THIOCARA PHODA-NIDE POTASSIUM SULFOCYANATE POTASSIUM RHODANIDE POTASSIUM RHODANATE ATERO-CYN ARTEROCYN KYONATE RHOCYN RODANCA P-317 OHS19640 RTECS XL1925000 166 (GW ACN)	333-20-0	< 0.1
PROPYL PARABEN	PROPYL P-HYDROXYBENZOATE PROTABEN 4-HYDROXYBENZOIC ACID, PROPYL ESTER P-HYDROXYBENZOIC ACID, PROPYL ESTER PASEPTOL PARASEPT PROPYL ASEPTOFORM PROPYL P-OXYBENZOATE	94-13-3	0 - 0.1
SODIUM PHOSPHATE, MONOBASIC	MONOSODIUM PHOSPHATE SODIUM DIHYDROGEN PHOSPHATE MONOSODIUM DIHYDROGEN PHOSPHATE SODIUM BIPHOSPHATE MONOSODIUM ORTHOPHOSPHATE PHOSPHORIC ACID, MONOSODIUM SALT MONOBASIC SODIUM PHOSPHATE MONOSODIUM HYDROGEN PHOSPHATE SODIUM DIPHOSPHATE ANHYDROUS SODIUM PRIMARY PHOSPHATE SODIUM PHOSPHATE	7558-80-7	< 0.1
ZINC GLUCONATE	BIS(D-GLUCONATO-O(SUP1),O(SUP2)ZINC ZINC, BIS(D-GLUCONATO-O(SUP1),O(SUP2) GLUCONAL ZN ZINC, BIS(D-GLUCONATO-O(1),O(2))-ZYMIZINC GLUCONIC ACID, ZINC SALT D-GLUCONIC ACID, ZINC COMPLEX	4468-02-4	< 0.1
Other components below reportable levels			70 - < 80

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

4. First-aid measures

Inhalation	Move to fresh air. If breathing is difficult, trained personnel should give oxygen. Call a physician if symptoms develop or persist. 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. Take off contaminated clothing and wash before reuse. Get medical attention if symptoms occur.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). If ingestion of a large amount does occur, call a poison control center immediately. Do not induce vomiting without advice from poison control center.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	No specific antidotes are recommended. Treat according to locally accepted protocols. For additional guidance, refer to the current prescribing information or to the local poison control information center.
General information	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Water.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	This product will support combustion at elevated temperatures.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. 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 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. No special control measures required for the normal handling of this product. Avoid prolonged exposure. Use care in handling/storage.
Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks and open flame. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

GSK

Components	Type	Value	Form
BENZOIC ACID (CAS 65-85-0)	OHC	2	PROVISIONAL
CALCIUM LACTATE (CAS 814-80-2)	8 HR TWA	5000 mcg/m3	
	OHC	1	
POTASSIUM THIOCYANATE (CAS 333-20-0)	8 HR TWA	5000 mcg/m3	
	OHC	1	
PROPYL PARABEN (CAS 94-13-3)	8 HR TWA	5000 mcg/m3	
	OHC	1	
SODIUM BENZOATE (CAS 532-32-1)	8 HR TWA	5000 mcg/m3	
SODIUM PHOSPHATE, MONOBASIC (CAS 7558-80-7)	OHC	1	
ZINC GLUCONATE (CAS 4468-02-4)	OHC	2	

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

Components	Type	Value	Form
GLYCEROL (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value	Form
PROPYLENE GLYCOL (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.

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

Exposure guidelines

Appropriate engineering controls General ventilation normally adequate.

Individual protection measures, such as personal protective equipment

Eye/face protection Not normally needed. If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection Not normally needed. For prolonged or repeated skin contact use suitable protective gloves.

Other Not normally needed. Wear suitable protective clothing as protection against splashing or contamination.

Respiratory protection 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 Wear appropriate thermal protective clothing, when necessary.

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

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Bottle.

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	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

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	Keep away from heat, sparks and open flame. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	None known. Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Health injuries are not known or expected under normal use.
Eye contact	Health injuries are not known or expected under normal use. Direct contact with eyes may cause temporary irritation.
Ingestion	Health injuries are not known or expected under normal use. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity	Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Components	Species	Test Results
METHYL PARABEN (CAS 99-76-3)		
Acute		
Oral		
LD50	Mouse	> 8 g/kg
PROPYL PARABEN (CAS 94-13-3)		
Acute		
Oral		
LD50	Rat	> 2000 mg/kg
SODIUM PHOSPHATE, MONOBASIC (CAS 7558-80-7)		
Acute		
Oral		
LD50	Rat	8290 mg/kg
ZINC GLUCONATE (CAS 4468-02-4)		
Acute		
Oral		
LD50	Rat	> 5000 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.

Irritation Corrosion - Skin: P.I.I. value
ZINC GLUCONATE 0

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

Respiratory or skin sensitization

Respiratory sensitization No studies have been conducted.

Skin sensitization None known. This product is not expected to cause skin sensitization.

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. Carcinogenic effects are not expected as a result of occupational exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity
Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens
Not listed.

Reproductive toxicity Contains no ingredient listed as toxic to reproduction

Specific target organ toxicity - single exposure Not assigned.

Specific target organ toxicity - repeated exposure Not assigned.

Aspiration hazard Not established.

Further information Occupational exposure to the substance or mixture may cause adverse effects.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
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
METHYL PARABEN (CAS 99-76-3)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	11.2 mg/l, 48 hours
Fish	LC50	Medaka, high-eyes (Oryzias latipes)	59.5 mg/l, 96 hours
Chronic			
Crustacea	NOEC	Water flea (Daphnia magna)	0.2 mg/l, 21 days OECD 211
PROPYLENE GLYCOL (CAS 57-55-6)			
Acute			
	IC50	Activated sludge	> 1000 mg/l, 3 hours
Aquatic			
Acute			
Algae	EC50	Green algae (Selenastrum capricornutum)	19000 mg/l, 14 days
	NOEC	Green algae (Selenastrum capricornutum)	15000 mg/l, 14 days
Crustacea	EC50	Daphnia	43500 mg/l, 48 hours
	NOEC	Daphnia	28500 mg/l, 48 hours
Fish	EC50	Fathead minnow (Adult Pimephales promelas)	51400 mg/l, 96 hours Static test
		Rainbow trout (Adult Oncorhyncus mykiss)	51600 mg/l, 96 hours Static test
	NOEC	Fathead minnow (Adult Pimephales promelas)	41000 mg/l, 96 hours Static test
		Rainbow trout (Adult Oncorhyncus mykiss)	42000 mg/l, 96 hours Static test
Microtox	EC50	Microtox	51400 mg/l, 30 minutes
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 PHOSPHATE, MONOBASIC (CAS 7558-80-7)			
Aquatic			
Acute			
Fish	EC50	Golden ide/orfe (Adult Leuciscus idus)	> 2400 mg/l, 48 hours Static test
		Mosquito fish (Adult Gambusia affinis)	186 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-aqueous)

PROPYLENE GLYCOL	1.3 - 2.3 Years Estimated

Half-life (Photolysis-atmospheric)

BENZOIC ACID	< 2 Days Estimated
PROPYLENE GLYCOL	32 Hours 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
PROPYLENE GLYCOL	62 %, 5 days BOD5, Activated sludge 79 %, 20 Days BOD20, Activated sludge
XYLITOL	82 %, 14 days BOD 14, Activated sludge

Percent degradation (Aerobic biodegradation-ready)

METHYL PARABEN	89 % , 28 days, OECD 301B
SODIUM BENZOATE	100 %, 28 days Modified OECD Screening Test (OECD 301E), Sea water 90 %, 7 days Modified Sturm test., Activated sludge

Percent degradation (Aerobic biodegradation-soil)

BENZOIC ACID	50 %, 7 days

Percent degradation (Anaerobic biodegradation)

PROPYLENE GLYCOL	100 %, 9 days
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
GLYCEROL	-1.76
METHYL PARABEN	1.96
PROPYL PARABEN	3.04
PROPYLENE GLYCOL	-1.35
SODIUM BENZOATE	1.89

Bioconcentration factor (BCF)

PROPYLENE GLYCOL	< 1 Estimated

Mobility in soil

Adsorption

Soil/sediment sorption - log Koc

BENZOIC ACID	2.26 Measured
SODIUM BENZOATE	1.16 Calculated

Mobility in general

Volatility

Henry's law

BENZOIC ACID	0 atm m^3/mol Estimated
PROPYLENE GLYCOL	0 atm m^3/mol Estimated

Distribution

Octanol/water distribution coefficient log DOW

PROPYL PARABEN	3.04

Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not discharge into drains, water courses or onto the ground. Dispose in accordance with all applicable 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). Avoid discharge into water courses or onto the ground.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as a dangerous good.

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 established.

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)

BENZOIC ACID (CAS 65-85-0)	Listed.
ZINC GLUCONATE (CAS 4468-02-4)	Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

GLYCEROL (CAS 56-81-5)	Other Flavoring Substances with OSHA PEL's

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

METHYL PARABEN (CAS 99-76-3)
PROPYL PARABEN (CAS 94-13-3)

US. Massachusetts RTK - Substance List

BENZOIC ACID (CAS 65-85-0)
GLYCEROL (CAS 56-81-5)

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

BENZOIC ACID (CAS 65-85-0)
GLYCEROL (CAS 56-81-5)
PROPYLENE GLYCOL (CAS 57-55-6)
ZINC GLUCONATE (CAS 4468-02-4)

US. Pennsylvania Worker and Community Right-to-Know Law

BENZOIC ACID (CAS 65-85-0)
GLYCEROL (CAS 56-81-5)
PROPYLENE GLYCOL (CAS 57-55-6)

US. Rhode Island RTK

BENZOIC ACID (CAS 65-85-0)
ZINC GLUCONATE (CAS 4468-02-4)

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)	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	12-04-2013
Revision date	09-23-2016
Version #	06
Further information	HMIS® is a registered trade and service mark of the ACA.
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.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.