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





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 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@ask.com
Website:	www.gsk.com
EMERGENCY CONTACTS	
Telephone:	VERISK 3E GLOBAL INCIDENT RESPONSE +(1) 760 476 3971 (In country) +(1) 760 476 3962 or +(1) 866 519 4752 (International)
Contract Number:	24/7; multi-language response 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 METHYLETHYL GLYCOL MONOPROPYLENE GLYCOL 2,3-PROPANEDIOL ALPHA-PROPYLENE GLYCOL 1,2-PROPYLENE GLYCOL (RS)-1,2-PROPANEDIOL 1,2-PROPANEDIOL 1,2-PROPANEDIOL DL-1,2-PROPANEDIOL 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 ETHE R CELLOSIZE 2-HYDROXYETHYL ETHER CELLULOS E NATROSOL 2-HYDROXYETHYL CELLULOSE HYDROXYETHYL 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

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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 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

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Chemical name	Common name and synonyms	CAS number	%
PROPYL PARABEN	PROPYL P-HYDROXYBENZOATE PROTABEN 4-HYDROXYBENZOIC ACID, PROPYL ESTER	94-13-3	0 - 0.1
	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	7550 00 7	- 0.4
SODIUM PHOSPHATE, MONOBASIC	MONOSODIUM PHOSPHATE SODIUM DIHYDROGEN PHOSPHATE MONOSODIUM DIHYDROGEN PHOSPHATE SODIUM BIPHOSPHATE	7558-80-7	< 0.1
	MONOSODIUM ORTHOPHOSPHATE PHOSPHORIC ACID, MONOSODIUM SALT		
	MONOBASIC SODIUM PHOSPHATE MONOSODIUM HYDROGEN PHOSPHATE		
	SODIUM DIPHOSPHATE ANHYDROUS SODIUM PRIMARY PHOSPHATE SODIUM PHOSPHATE		
ZINC GLUCONATE	BIS(D-GLUCONATO-O(SUP1),O(SUP2)Z INC ZINC, BIS(D-GLUCONATO-O(SUP1),O(SUP2) GLUCONAL ZN	4468-02-4	< 0.1
	ZINC, BIS(D-GLUCONATO-O(1),O(2))- ZYMIZINC GLUCONIC ACID, ZINC SALT D-GLUCONIC ACID, ZINC COMPLEX		
Other components below repor	table levels		70 - < 80
Designates that a specific chemic	cal identity and/or percentage of composition has be	een withheld as a trade se	ecret.
4. First-aid measures			
Inhalation	Move to fresh air. If breathing is difficult, trained p symptoms develop or persist. Under normal cond expected to be an inhalation hazard.		
Skin contact	Immediately flush skin with plenty of water. Take off contaminated clothing and wash before reus Get medical attention if symptoms occur.		and wash before reuse
Eye contact	Rinse thoroughly with plenty of water for at least		
Ingestion	If swallowed, rinse mouth with water (only if the p amount does occur, call a poison control center i advice from poison control center.		
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irr	itation.	
ndication of immediate medical attention and special treatment needed	No specific antidotes are recommended. Treat an additional guidance, refer to the current prescribi information center.		
General information	In the case of accident or if you feel unwell, seek where possible). Ensure that medical personnel a precautions to protect themselves.		
5. Fire-fighting measures			
Suitable extinguishing media	Foam. Dry chemical powder. Carbon dioxide (CC	02).	
Unsuitable extinguishing media	Water.		

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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	Туре	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<br 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</td
ZINC GLUCONATE (CAS 4468-02-4)	OHC	2	

Components	for Air Contaminants (29 CFR 1910.1000) Type	Value	Form
GLYCEROL (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. Workplace Environmen	ital Exposure Level (WEEL) Guides		
Components	Туре	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.		
ndividual protection measures	, such as personal protective equipment		
Eye/face protection	Not normally needed. If contact is likely, sa	fety glasses with side sh	ields are recommended.
Skin protection			
Hand protection	Not normally needed. For prolonged or rep	eated skin contact use s	uitable protective gloves.
Other	Not normally needed. Wear suitable protective clothing as protection against splashing or contamination.		
Respiratory protection	No personal respiratory protective equipme respirator if there is a risk of exposure to de		
Thermal hazards	Wear appropriate thermal protective clothin	ng, when necessary.	
General hygiene considerations	Always observe good personal hygiene me and before eating, drinking, and/or smoking equipment to remove contaminants. For a from a qualified environment, health and sa	g. Routinely wash work during the second s	clothing and protective

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Bottle.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	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 expl	osive 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.

The product is stable and non-reactive under normal conditions of use, storage and transport.
Material is stable under normal conditions.
Hazardous polymerization does not occur.
Keep away from heat, sparks and open flame. Contact with incompatible materials.
Strong oxidizing agents.
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 (CA	S 99-76-3)	
<u>Acute</u>		
Oral		
LD50	Mouse	> 8 g/kg
PROPYL PARABEN (CA	S 94-13-3)	
<u>Acute</u>		
Oral		
LD50	Rat	> 2000 mg/kg
SODIUM BENZOATE (CA	AS 532-32-1)	
<u>Acute</u>		
Oral		
LD50	Rat	2000 mg/kg
SODIUM PHOSPHATE, I	MONOBASIC (CAS 7558-80-7)	
<u>Acute</u>		
Oral		
LD50	Rat	8290 mg/kg
ZINC GLUCONATE (CAS	S 4468-02-4)	
<u>Acute</u>		
Oral		
LD50	Mouse	> 1290 mg/kg

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Respiratory sensitization No studies have been conducted. Skin sensitization None known. This product is not expected to cause skin sensitization. Burbler test Species: Guinea pig BENZOIC ACID Result: Negative Species: Guinea pig Maximisation assay (Magnusson and Kilgman) Result: Negative Species: Guinea pig Sensitization Cocal lymph node assay Result: Negative Species: Mouse SoDIUM BENZOAT 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. Mutagonicity Not classifiable as to carcinogenicity to humans. Carcinogenic effects are not expected as a resul of occupational exposure. SODIUM BENZOATE Result: Negative Result: Negative SoDIUM BENZOATE SODIUM BENZOATE Z year study, Male + Female Result: Negative SoDIUM BENZOATE SODIUM BENZOATE Z year study, Male + Female Result: Negative - dietany Species: Rat SODIUM BENZOATE Contains no ingredient listed as toxic to reproduction. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) Not regulated. US. National Toxicology Program (NTP) Report on Carcinogens Not listed. Contains no ingredient listed as toxic to reproduction. Reproductivity SoDIUM BENZOATE Embyo	Components	Species	Test Results
Skin corrosion/irritation Health injuries are not known or expected under normal use. Corrosivity OECD 404 SODIUM BENZOATE OECD 404 Result: Negative ZINC GLUGONATE 0 Serious eye damage/eye Health injuries are not known or expected under normal use. Direct contact with eyes may cause temporary initiation. Eye SODIUM BENZOATE Acute ocular irritation: OECD 405 Result: Mild irritant Species: Rabbit Respiratory or skin sensitization No studies have been conducted. Respiratory or skin sensitization BENZOIC ACID Keever and the sensitization Species: Guinea pig Species: Guinea pig Maximisation assay (Mayuusson and Kligman) BENZOIC ACID Result: Negative Species: Guinea pig SoDIUM BENZOATE Local prophonents present at greater than 0.1% are mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Mutagenicity Not classifiable as to carcinogenicity to humans. Carcinogenic effects are not expected as a resu of cocupative - dictary Species: Rait SODIUM BENZOATE Aresult: Negative Result: Negative freeut: Negative - dictary Species: Rait SODIUM BENZOATE Aresult Negative Result: Negative - dictary Species: Rait SODIUM BENZOATE Carcinogenicity to humans. Carcin		Rat	> 5000 mg/kg
Corrosivity SODIUM BENZOATE OECD 404 Result. Negative Species: Rabbit Tritation Corrosion - Skit:: P.11. value (protary inflation) O Serious ave damage/ave (protary inflation) Health injuries are not known or expected under normal use. Direct contact with eyes may cause (emporary inflation). Eve SoDIUM BENZOATE Acute ocular inflation; OECD 405 Result: Mild inflant Species: Rabbit Respiratory or skin sensitization No studies have been conducted. Respiratory or skin sensitization No studies have been conducted. SoDIUM BENZOACD Result: Nigative BENZOIC ACID BENZOIC ACID Result: Negative Species: Guinea pig SODIUM BENZOATE No data available to indicate product or any components present at greater than 0.1% are mutagenicity SODIUM BENZOATE Arnes 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 Species: Rat SODIUM BENZOATE Vat classifiable as to carcinogenicity to humans. Carcinogenic effe	* Estimates for product may be	e based on additional compo	onent data not shown.
SODIUM BENZOATE CEC 0 404 Species: Rabbit irritation Corrosion - Skin: P. II. value ZINC GLUCONATE 0 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: Negative Species: Rabbit Respiratory or skin sensitization No studies have been conducted. Skin sensitization No studies have been conducted. Secies: Guinea pig Maximisation assay (Magnusson and Kilgman) BENZOIC ACID Result: Negative SoDIUM BENZOATE Local lymph node assay Result: Negative SoDIUM BENZOATE Local lymph node assay Result: Negative SoDIUM BENZOATE Acute Result: Negative SoDIUM BENZOATE Acute Result: Negative SoDIUM BENZOATE Acute Acute Acute or any components present at greater than 0.1% are mutagenicity Not classifiable as to carcinogenicity to humans. Carcinogenic effects are not expected as a resul of occupational exposure. SODIUM BENZOATE Acute	Skin corrosion/irritation	Health injuries are not know	wn or expected under normal use.
SODIUM BENZOATE CEC 0404 Species: Rabbit irritation Corrosion - Skin: P.I.I. value ZINC GLUCONATE 0 Bealth: Negative sofcous eye damage/eye irritation Pleathi nijuries are not known or expected under normal use. Direct contact with eyes may cause temporary irritation. Eye SODIUM BENZOATE Adult - Adulte ocular irritation; OECD 405 Result: Nidi Irritant Skin sensitization No studies have been conducted. Skin sensitization No studies nave been conducted. Skin sensitization No studies nave been conducted. Skin sensitization No studies nave Species: Guinea pig Maximisation assay (Magnusson and Kiigman) BENZOIC ACID Result: Negative SoDIUM BENZOATE Local lymph node assay Result: Negative SoDIUM BENZOATE Local lymph node assay Result: Negative SoDIUM BENZOATE Adult a available to indicate product or any components present at greater than 0.1% are mutagenicity Not data available to indicate product or any components present at greater than 0.1% are mutagenicity Not classifiable as to carcinogenic effects are not expected as a resu of occupational exposure SODIUM BENZOATE 24 year study. Male + Female Result: Negative - dietary Species: Rat IARC Monographs. Overall Evistances (29 CFR 1910.1001-1052) Not result Negative - dietary Species: Rat SODIUM BENZOATE Contains no ingredient listed as toxic to reproduction. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Reproductive toxicity Contains no ingredient listed as toxic to re	Corrosivity		
INC GLUCONATE 0 Serious eye damageleye Health injuries are not known or expected under normal use. Direct contact with eyes may cause immation. Eye SODIUM BENZOATE Acute ocular imitation; OECD 405 Result: Mild irritant Species: Rabbit Respiratory or skin sensitization Nos studies have been conducted. Skin sensitization Nos studies have been conducted. Skin sensitization Nos known. This product is not expected to cause skin sensitization. Buehler test BENZOIC ACID Nos known. This product is not expected to cause skin sensitization. Buehler test BENZOIC ACID Nos known. This product is not expected to cause skin sensitization. Buehler test BENZOIC ACID Nos known. This product is not expected to cause skin sensitization. Buehler test BENZOIC ACID Nos assay (Magman) BENZOIC ACID Nos data available to indicate been components present at greater than 0.1% are species: Guinea pig Sensitization No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Mutagenicity Not classifiable as to carcinogenic broduct or any components present at greater than 0.1% are species: Rature		Ξ	Result: Negative
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SODIUM BENZOATE Acute ocular initiation; OECD 405 Result: Null initiant Species: Rabbit Respiratory or skin sensitization No studies have been conducted. Skin sensitization None known. This product is not expected to cause skin sensitization. Burther test BENZOIC ACID BENZOIC ACID Result: Negative Species: Guinea pig Maximisation assay (Magnusson and Kligman) BENZOIC ACID Result: Negative Species: Guinea pig Sonsitization Scelice: Guinea pig Sondium BENZOIC ACID Result: Negative Species: Guinea pig Sensitization Scelice: Guinea pig Sondium BENZOIC ACID 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 Not data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Mutagenicity Not data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Mutagenicity Not data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. SoDIUM BENZOATE Armes Result: Negative Species: Rat SoDIUM BENZOATE Carcinogenicity to humans. Carcinogen			wn or expected under normal use. Direct contact with eyes may cause
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single exposure Specific target organ toxicity - Not assigned.		E	Result: Negative Reproduction/Fertility Study Result: Negative
		Not assigned.	
	Specific target organ toxicity -	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 GLYCO	L (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 (C	AS 7558-80-7)	
Aquatic			
Acute			
Fish	EC50	Golden ide/orfe (Adult Leuc	iscus idus) > 2400 mg/l, 48 hours Static test
		Mosquito fish (Adult Gambu	isia affinis) 186 mg/l, 96 hours Static test
* Estimates for product	may be based on	additional component data not sh	own.
sistence and degradab	ility		
Photolysis			
Half-life (Photolys	is-aqueous)		
PROPYLENE GLY		1.3 - 2.3 Ye	ears Estimated
Half-life (Photolys	is-atmospheric)		
BENZOIC ACID		< 2 Days Es	
PROPYLENE GLY UV/visible spectru		32 Hours E	sumated
BENZOIC ACID	ini wavelengti	279 nm	
Biodegradability			
-	on (Aerobic biod	egradation-inherent)	· · · · · · · · · · · · · · · · · · ·
BENZOIC ACID			ays Modified Zahn-Wellens, Activated sludge
PROPYLENE GLY	COL		/s BOD5, Activated sludge ays BOD20, Activated sludge
XYLITOL			ays BOD20, Activated studge
	on (Aerobic biod	egradation-ready)	
METHYL PARABE		89 % , 28 d	ays, OECD 301B
SODIUM BENZOA	TE		days Modified OECD Screening Test (OECD
		301E), Sea	
Percent degradati	on (Aarobic biod	-	vs Modified Sturm test., Activated sludge
BENZOIC ACID		50 %, 7 day	/S
Percent degradati	on (Anaerobic bi		-
PROPYLENE GLY		100 %, 9 da	
SODIUM BENZOA	TE		vs Other degradation test system, Mixed
accumulative potential		Residential	/Industrial
Partition coefficient n		log Kow)	
BENZOIC ACID	,	1.87	
GLYCEROL		-1.76	
METHYL PARABEN		1.96	
PROPYL PARABEN PROPYLENE GLYCOL		3.04 -1.35	
SODIUM BENZOATE		-1.35 1.89	
Bioconcentration fact	or (BCF)	1.00	
PROPYLENE GLYCOL		< 1 Estimat	ed
oility in soil			
Adsorption			
Soil/sediment sor	ption - log Koc		
BENZOIC ACID		2.26 Measu	ıred
SODIUM BENZOA	TE	1.16 Calcul	ated
oility in general			
Volatility			
Henry's law			
BENZOIC ACID			mol Estimated
PROPYLENE GLY	COL	0 atm m^3/i	mol Estimated
Distribution			
Octanol/water dis		•	
PROPYL PARABE	N	3.04	

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 toNot established.Annex II of MARPOL 73/78 and

the IBC Code

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 Not regulated.

(SDWA)

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

Obtained by Global Safety Management, www.globalsafetynet.com, (877) 683-7460



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 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/E	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 MONOPROPYLENE GLYCOL 2,3-PROPANEDIOL ALPHA-PROPYLENE GLYCOL 1,2-PROPYLENE GLYCOL 1,2-PROPANEDIOL 1,2-(RS)-PROPANEDIOL 1,2-PROPANEDIOL DL-1,2-PROPANEDIOL DL-1,2-PROPANEDIOL DL-1,2-DIOL (PROPYLENE GLYCOL) PROPANE-1,2-DIOL 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 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 PHOSPHAT E 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)ZIN C 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

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

First aid massures

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.

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

Fire fighting

equipment/instructions

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

Components	Туре	Value	Form
BENZOIC ACID (CAS 65-85-0)	OHC	2	PROVISIONAL
CALCIÚM 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	Туре	Value	Form
GLYCEROL (CAS 56-81-5)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.
	PEL onmental Exposure Level (WEEL) Guides Type	15 mg/m3	•
US. AIHA Workplace Enviro Components PROPYLENE GLYCOL	onmental Exposure Level (WEEL) Guides	15 mg/m3	Total dust.
US. AIHA Workplace Enviro Components	onmental Exposure Level (WEEL) Guides Type	15 mg/m3 Value 10 mg/m3	Total dust.
US. AIHA Workplace Enviro Components PROPYLENE GLYCOL (CAS 57-55-6)	onmental Exposure Level (WEEL) Guides Type TWA	15 mg/m3 Value 10 mg/m3	Total dust.
US. AIHA Workplace Enviro Components PROPYLENE GLYCOL (CAS 57-55-6) logical limit values	onmental Exposure Level (WEEL) Guides Type TWA	15 mg/m3 Value 10 mg/m3	Total dust.
US. AIHA Workplace Enviro Components PROPYLENE GLYCOL (CAS 57-55-6) logical limit values posure guidelines propriate engineering trols	TWA No biological exposure limits noted for the General ventilation normally adequate.	15 mg/m3 Value 10 mg/m3 e ingredient(s).	Total dust.
US. AIHA Workplace Enviro Components PROPYLENE GLYCOL (CAS 57-55-6) logical limit values posure guidelines propriate engineering trols	onmental Exposure Level (WEEL) Guides Type TWA No biological exposure limits noted for the	15 mg/m3 Value 10 mg/m3 e ingredient(s).	Total dust. Form Aerosol.
US. AIHA Workplace Enviro Components PROPYLENE GLYCOL (CAS 57-55-6) logical limit values rosure guidelines propriate engineering trols vidual protection measures	Type TWA No biological exposure limits noted for the General ventilation normally adequate.	15 mg/m3 Value 10 mg/m3 e ingredient(s).	Total dust. Form Aerosol.
US. AIHA Workplace Enviro Components PROPYLENE GLYCOL (CAS 57-55-6) logical limit values posure guidelines propriate engineering trols vidual protection measures Eye/face protection	Type TWA No biological exposure limits noted for the General ventilation normally adequate.	15 mg/m3 Value 10 mg/m3 e ingredient(s). safety glasses with side shi	Total dust. Form Aerosol. elds are recommended.
US. AIHA Workplace Enviro Components PROPYLENE GLYCOL (CAS 57-55-6) logical limit values rosure guidelines propriate engineering trols vidual protection measures Eye/face protection Skin protection	TWA TWA No biological exposure limits noted for the General ventilation normally adequate. , such as personal protective equipment Not normally needed. If contact is likely, s Not normally needed. For prolonged or re Not normally needed. Wear suitable protective	15 mg/m3 Value 10 mg/m3 e ingredient(s). safety glasses with side shi	Total dust. Form Aerosol. elds are recommended.
US. AIHA Workplace Enviro Components PROPYLENE GLYCOL (CAS 57-55-6) logical limit values posure guidelines propriate engineering trols vidual protection measures Eye/face protection Skin protection Hand protection	Domental Exposure Level (WEEL) Guides Type TWA No biological exposure limits noted for the General ventilation normally adequate. , such as personal protective equipment Not normally needed. If contact is likely, s Not normally needed. For prolonged or re Not normally needed. Wear suitable prote contamination. No personal respiratory protective equipment	15 mg/m3 Value 10 mg/m3 e ingredient(s). safety glasses with side shi epeated skin contact use su ective clothing as protectior ment normally required. Use	Total dust. Form Aerosol. elds are recommended. uitable protective gloves. a against splashing or a NIOSH/MSHA approv
US. AIHA Workplace Enviro Components PROPYLENE GLYCOL (CAS 57-55-6) logical limit values posure guidelines propriate engineering trols vidual protection measures Eye/face protection Skin protection Hand protection Other Respiratory protection	Sommental Exposure Level (WEEL) Guides Type TWA No biological exposure limits noted for the General ventilation normally adequate. , such as personal protective equipment Not normally needed. If contact is likely, s Not normally needed. For prolonged or re Not normally needed. Wear suitable prote contamination. No personal respiratory protective equipr respirator if there is a risk of exposure to	15 mg/m3 Value 10 mg/m3 e ingredient(s). safety glasses with side shi epeated skin contact use su ective clothing as protectior ment normally required. Use dust/fume at levels exceed	Total dust. Form Aerosol. elds are recommended. uitable protective gloves. a against splashing or a NIOSH/MSHA approv
US. AIHA Workplace Enviro Components PROPYLENE GLYCOL (CAS 57-55-6) logical limit values oropriate engineering trols vidual protection measures Eye/face protection Skin protection Hand protection Other	Domental Exposure Level (WEEL) Guides Type TWA No biological exposure limits noted for the General ventilation normally adequate. , such as personal protective equipment Not normally needed. If contact is likely, s Not normally needed. For prolonged or re Not normally needed. Wear suitable prote contamination. No personal respiratory protective equipment	15 mg/m3 Value 10 mg/m3 e ingredient(s). safety glasses with side shi epeated skin contact use su ective clothing as protectior ment normally required. Use dust/fume at levels exceed hing, when necessary.	Total dust. Form Aerosol. elds are recommended. uitable protective gloves. a against splashing or a NIOSH/MSHA approving the exposure limits.

9. Physical and chemical properties

Appearance		
Physical state	Liquid.	
Form	Bottle.	
Color	Not available.	
Odor	Not available.	
Odor threshold	Not available.	

рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boil range	ng Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or	explosive limits
Flammability limit - low (%)	er Not available.
Flammability limit - upp (%)	er 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 reactiv	/itv/

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

Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Health injuries are not known or expected under normal use.
Health injuries are not known or expected under normal use. Direct contact with eyes may cause temporary irritation.
Health injuries are not known or expected under normal use. However, ingestion is not likely to be a primary route of occupational exposure.
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)	
<u>Acute</u>		
Oral		
LD50	Mouse	> 8 g/kg
PROPYL PARABEN (CAS 94-13-3		
Acute		
Oral		
LD50	Rat	> 2000 mg/kg
SODIUM PHOSPHATE, MONOBA	SIC (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	e based on additional component data not showr	n.
Skin corrosion/irritation	Health injuries are not known or expected under	er normal use.
Irritation Corrosion - Sk ZINC GLUCONATE	i n: P.I.I. value 0	
Serious eye damage/eye irritation	Health injuries are not known or expected under temporary irritation.	er normal use. Direct contact with eyes may cause
Respiratory or skin sensitization		
Respiratory sensitization	No studies have been conducted.	
Skin sensitization	None known. This product is not expected to c	ause skin sensitization.
Buehler test		
BENZOIC ACID	Result: Negativ Species: Guine	
Maximisation assay (Ma BENZOIC ACID	gnusson and Kligman) Result: Negativ	/e
	Species: Guine	ea pig
Germ cell mutagenicity	No data available to indicate product or any co mutagenic or genotoxic.	mponents present at greater than 0.1% are
Carcinogenicity	Not classifiable as to carcinogenicity to humans of occupational exposure.	s. Carcinogenic effects are not expected as a result
IARC Monographs. Overall E	valuation of Carcinogenicity	
Not listed. OSHA Specifically Regulated	d Substances (29 CFR 1910.1001-1050)	
Not regulated. US. National Toxicology Pro Not listed.	gram (NTP) Report on Carcinogens	
	Contains no ingredient listed as toxic to reprod	luction
Reproductive toxicity	Contains no ingredient listed as toxic to reprod	
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 mix	xture may cause adverse effects.
12. Ecological information		
Ecotoxicity		y hazardous. However, this does not exclude the a harmful or damaging effect on the environment.

Components		Species	Test Results
BENZOIC ACID (CAS	65-85-0)		
Acute	10-0		
	IC50	Activated sludge	> 1000 mg/l, 3 hours
Aquatic			
Acute	5050	Orean alrea (Cashadaamua	> 10 mm/ 11 days Statistast
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 (C	AS 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 te
SODIUM PHOSPHATE	, MONOBASIC (C	AS 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

Persistence and degradability

Photolysis Half-life (Photolysis-aqu	eous)	
PROPYLENE GLYCOL Half-life (Photolysis-atm	ospheric)	1.3 - 2.3 Years Estimated
BENZOIC ACID		< 2 Days Estimated
PROPYLENE GLYCOL UV/visible spectrum way	volongth	32 Hours Estimated
BENZOIC ACID	velength	279 nm
Biodegradability Percent degradation (Ae	erobic biodegradation-inherer	nt)
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
	erobic biodegradation-ready)	
METHYL PARABEN SODIUM BENZOATE		89 % , 28 days, OECD 301B 100 %, 28 days Modified OECD Screening Test (OECD
		301E), Sea water
Deveent degredation (As	vehic biodegradation acil)	90 %, 7 days Modified Sturm test., Activated sludge
BENZOIC ACID	erobic biodegradation-soil)	50 %, 7 days
	naerobic biodegradation)	
PROPYLENE GLYCOL SODIUM BENZOATE		100 %, 9 days 93 %, 7 days Other degradation test system, Mixed
		Residential/Industrial
Bioaccumulative potential		
Partition coefficient n-octand BENZOIC ACID	ol / water (log Kow)	1.87
GLYCEROL		-1.76
METHYL PARABEN		1.96
PROPYL PARABEN PROPYLENE GLYCOL		3.04 -1.35
SODIUM BENZOATE		1.89
Bioconcentration factor (BC	F)	
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 PROPYL PARABEN	on coefficient log DOW	3.04
Other adverse effects	Not available.	
13. Disposal consideratior	IS	
Disposal instructions	Collect and reclaim or dispose	e in sealed containers at licensed waste disposal site. Do not ourses or onto the ground. Dispose in accordance with all applicable
Local disposal regulations	Dispose in accordance with a	Il applicable regulations.
Hazardous waste code		signed in discussion between the user, the producer and the waste
Waste from residues / unused products	product residues. This materia	a local regulations. Empty containers or liners may retain some al and its container must be disposed of in a safe manner (see: discharge into water courses or onto the ground.
Matarial name: DIOTENE MOUTHINA	0.1	

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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 Not established. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations

TSCA Section 12(b) Export	Notification (40 CFR 707, Sul	bpt. D)
Not regulated.		
CERCLA Hazardous Substa		
BENZOIC ACID (CAS 65-85-0)		Listed.
ZINC GLUCONATE (CA	,	Listed.
SARA 304 Emergency relea		
Not regulated.	ad Substances (20 CEB 1010	1001 1050)
	ed Substances (29 CFR 1910.	1001-1050)
Not regulated.		
Superfund Amendments and Re	-	ARA)
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely hazar Not listed.	dous substance	
SARA 311/312 Hazardous chemical	No	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
Clean Air Act (CAA) Section	n 112 Hazardous Air Pollutan	ts (HAPs) List
Not regulated.		
Clean Air Act (CAA) Section	n 112(r) Accidental Release P	revention (40 CFR 68.130)
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
FEMA Priority Substan	ces Respiratory Health and S	afety in the Flavor Manufacturing Workplace
GLYCEROL (CAS 5	56-81-5)	Other Flavoring Substances with OSHA PEL's
US state regulations		
US. California Controlled S	ubstances. CA Department o	f Justice (California Health and Safety Code Section 11100)
Not listed.		
US. California. Candidate C (a))	hemicals List. Safer Consum;	er Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.
METHYL PARABEN (CA PROPYL PARABEN (CA		
US. Massachusetts RTK - S	,	
BENZOIC ACID (CAS 6 GLYCEROL (CAS 56-81		
,	•	

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.