SAFETY DATA SHEET

1. Identification

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

Other means of identification

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

Recommended use Medical Device

This safety data sheet is written to provide health, safety and environmental information for people handling this formulated product in the workplace. It is not intended to provide information relevant to medicinal use of the product. In this instance patients should consult prescribing information/package insert/product label or consult their pharmacist or physician. For health and safety information for individual ingredients used during manufacturing, refer to the appropriate safety data sheet for each ingredient.

Recommended restrictions No other uses are advised.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

GlaxoSmithKline US
5 Moore Drive
Research Triangle Park, NC 27709 USA
US General Information (normal business hours): +1-888-825-5249
Email Address: msds@gsk.com
Website: www.gsk.com
EMERGENCY PHONE NUMBERS -
TRANSPORT EMERGENCIES::
US / International toll call +1 703 527 3887
available 24 hrs/7 days; multi-language response

2. Hazard(s) identification

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

Label elements

Signal word Warning

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

Precautionary statement

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

Response If on skin: Wash with plenty of water/. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse.

Storage Store away from incompatible materials.

Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Assume that this product is capable of sustaining combustion. See section 11 of the SDS for additional information on health hazards.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
GLYCERIN	GLYCEROL * GLYCERIN ANHYDROUS * GLYCERINE * GLYCERITOL * GLYCYL ALCOHOL * 1,2,3-PROPANETRIOL * PROPANETRIOL * GLYROL * GLYSANIN * TRIHYDROXYPROPANE * 1,2,3-TRIHYDROXYPROPANE * OSMOGLYN	56-81-5	7
SESAME OIL	BENNE OIL * TEEL OIL * GINGILLI OIL * OILS, SESAME * BENI OIL * GINGELLY OIL * TEAL OIL * BENE OIL * SIMSIM OIL * TIL OIL * UFUTA OIL * GINGILI OIL * SESAMUM INDICUM OIL	8008-74-0	5
D-SORBITOL	SORBITOL * L-GULITOL * 1,2,3,4,5,6-HEXANEHEXOL * D-SORBOL	50-70-4	4.0 - 5.0
SODIUM LAURETH SULFATE	ALPHA-SULFO-OMEGA-(DODECYLOXY)POLY(OXY-1,2-ETHANEDIYL), SODIUM SALT * GLYCOLS, POLYETHYLENE, MONO(HYDROGEN SULFATE), DODECYL ETHER, SODIUM SALT * LAURETH SULPHATE * SODIUM LAURYL ETHER SULFATE * SODIUM SULFATE LAURYL ETHER * SODIUM LAURETH SULPHATE	9004-82-4	3
L-MENTHOL	CYCLOHEXANOL, 5-METHYL-2-(1-METHYLETHYL)-, (1R-(1ALPHA,2BETA,5ALPHA))- * (1R-(1ALPHA,2BETA,5ALPHA))-5-METHYL-2-(1-METHYLETHYL) -CYCLOHEXANOL * LEVOMENTHOL * L-MENTHOL * (L)-MENTHOL	2216-51-5	1.0 - 2.0
CORNMINT OIL TERPENELESS		68917-18-0	1.22
COCOAMIDOPROPYL BETAINE	COCOAMIDO BETAINE * N-(COCO ALKYL) AMIDO PROPYL DIMETHYL BETAINE * COCONUT OIL AMIDOPROPYL BETAINE	61789-40-0	1
SODIUM BENZOATE	BENZOIC ACID, SODIUM SALT * BENZOATE OF SODA * SODUIM BENZOIC ACID	532-32-1	1
BENZOIC ACID	BENZENECARBOXYLIC ACID * BENZENEMETHANOIC ACID * BENZENEFORMIC ACID * BENZOATE * CARBOXYBENZENE * DRACYLIC ACID * PHENYL CARBOXYLIC ACID * PHENYLFORMIC ACID * PHENYLCARBOXYLIC ACID * E 210 * HA 1 * HA 1(ACID) * RETARDEX * RETARDER BA * SOLVO POWDER * TENN-PLAS * OHS02720 * RTECS DG0875000	65-85-0	<1.0
OIL OF SPEARMINT	OILS, SPEARMINT * CURLED MINT OIL * SPEARMINT OIL	8008-79-5	<1.0
PEPPERMINT OIL	OIL OF PEPPERMINT * ESSENTIAL PEPPERMINT OIL * PEPPERMINT LEAF OIL * PEPPERMINT TERPENES	8006-90-4	<1.0
POLYETHYLENE GLYCOL 8000	ETHYLENE GLYCOL POLYMER * ETHYLENE GLYCOL HOMOPOLYMER * POLYOXYETHYLENE 8000 * POLYGLYCOL E-8000	25322-68-3	<1.0

Chemical name	Common name and synonyms	CAS number	%
SACCHARIN	1,2-BENZISOTHIAZOL-3(2H)-ONE, 1,1-DIOXIDE * ANHYDRO-O-SULFAMINEBENZOIC ACID * BENZOIC SULPHINIDE * O-BENZOYL SULFIMIDE * SACCHARIN INSOLUBLE	81-07-2	<1.0
2,6-DI-TERT-BUTYL-P-CRESOL	BUTYLATED HYDROXYTOLUENE * 4-METHYL-2,6-DI-TERT-BUTYLPHENOL * BUTYLHYDROXYTOLUENE * DIBUTYLATED HYDROXYTOLUENE * 2,6-DI-TERT-BUTYL-1-HYDROXY-4-METHYLBENZENE * 3,5-DI-TERT-BUTYL-4-HYDROXYTOLUENE * 2,6-BIS(1,1-DIMETHYLETHYL)-4-METHYLPHENOL * 2,6-DI-TERT-BUTYL-4-METHYLPHENOL * 2,6-TERT-BUTYL-4-METHYLPHENOL * 2,6-DI-TERT-BUTYL-PARA-CRESOL	128-37-0	<0.1
ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT	(ETHYLENEDIAMINETETRAACETIC ACID), DISODIUM SALT * ACETIC ACID, (ETHYLENEDINITRILO)TETRA-, DISODIUM SALT * CHELAPLEX * DISODIUM EDETATE * DISODIUM EDTA * DISODIUM ETHYLENEDIAMINE TETRAACETATE * DISODIUM SEQUESTRENE * DISODIUM VERSENATE * DISODIUM VERSENE * EDETATE DISODIUM * EDTA DISODIUM SALT * ENDRATE DISODIUM * N,N'-1,2-ETHYLENEDIYLBIS(N-(CARBOXYMETHYL)GLYCINE, DISODIUM SALT * RTECS AH4375000 * SELEKTON B2 * SODIUM (DI) ETHYLENEDIAMINE TETRAACETATE * TETRACEMATE DISODIUM	139-33-3	<0.1
Other components below reportable levels			70.0 - 75.0

*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. Call a physician if symptoms develop or persist. If breathing is difficult, trained personnel should give oxygen. Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact Immediately flush skin with plenty of water. Get medical attention if symptoms occur. Take off contaminated clothing and wash before reuse.

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

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

Most important symptoms/effects, acute and delayed Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

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 local poison control information center.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Pre-placement and periodic health surveillance is not usually indicated. The final determination of the need for health surveillance should be determined by local risk assessment.

5. Fire-fighting measures

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

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for 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	Assume that this product is capable of sustaining combustion.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 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. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

GSK

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

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

Components	Type	Value	Form
GLYCERIN (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
SESAME OIL (CAS 8008-74-0)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

US. ACGIH Threshold Limit Values

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

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
2,6-DI-TERT-BUTYL-P-CR ESOL (CAS 128-37-0)	TWA	10 mg/m3	
SESAME OIL (CAS 8008-74-0)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Mist.

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value	Form
POLYETHYLENE GLYCOL 8000 (CAS 25322-68-3)	TWA	10 mg/m3	Particulate.

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

Appropriate engineering controls General ventilation normally adequate. An Exposure Control Approach (ECA) is established for operations involving this material based upon the OEL/Occupational Hazard Category and the outcome of a site- or operation-specific risk assessment.

Individual protection measures, such as personal protective equipment

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

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

Skin protection

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

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

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Liquid.

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 available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

11. Toxicological information

Information on likely routes of exposure

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

Information on toxicological effects

Acute toxicity	Substance likely to cause pharmacologically mediated or other adverse effects upon inhalation. May cause an allergic skin reaction. May irritate eyes and skin.

Components	Species	Test Results
2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)		
Acute		
Oral		
LD50	Rat	890 mg/kg
COCOAMIDOPROPYL BETAINE (CAS 61789-40-0)		
Acute		
Oral		
LD50	Mouse	> 2000 mg/kg

Components	Species	Test Results
D-SORBITOL (CAS 50-70-4)		
Acute		
Oral		
LD50	Rat	15.9 g/kg
ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT (CAS 139-33-3)		
Acute		
Oral		
LD50	Rat	> 2000 mg/kg
GLYCERIN (CAS 56-81-5)		
Acute		
Oral		
LD50	Rat	> 2000 mg/kg
L-MENTHOL (CAS 2216-51-5)		
Acute		
Oral		
LD50	Rat	3300 mg/kg
OIL OF SPEARMINT (CAS 8008-79-5)		
Acute		
Oral		
LD50	Rat	> 5000 mg/kg
PEPPERMINT OIL (CAS 8006-90-4)		
Acute		
Oral		
LD50	Rat	2426 mg/kg
POLYETHYLENE GLYCOL 8000 (CAS 25322-68-3)		
Acute		
Oral		
LD50	Rat	> 20 g/kg
SACCHARIN (CAS 81-07-2)		
Acute		
Oral		
LD50	Mouse	17 g/kg
SODIUM LAURETH SULFATE (CAS 9004-82-4)		
Acute		
Oral		
LD50	Rat	1288 mg/kg

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

Skin corrosion/irritation Health injuries are not known or expected under normal use. Prolonged skin contact may cause temporary irritation.

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

Respiratory or skin sensitization

Respiratory sensitization Not available.

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

Buehler test

BENZOIC ACID — Result: Negative; Species: Guinea pig

Maximisation assay (Magnusson and Kligman)

BENZOIC ACID — Result: Negative; Species: Guinea pig

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

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Contains no ingredient listed as toxic to reproduction

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not available.

Further information None known.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Components		Species	Test Results
2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	1.44 mg/l, 48 hours Static test
Fish	EC50	Orange-red killfish (Adult Oryzias latipes)	5.3 mg/l, 48 hours Static test
BENZOIC ACID (CAS 65-85-0)			
Acute			
	IC50	Activated sludge	> 1000 mg/l, 3 hours
Aquatic			
Acute			
Algae	EC50	Green algae (Scenedesmus quadricauda)	> 10 mg/l, 14 days Static test
Crustacea	EC50	Water flea (Daphnia magna)	500 mg/l, 24 hours
Fish	EC50	Mosquito fish (Juvenile Gambusia affinis)	180 mg/l, 96 hours Static test
Microtox	EC50	Microtox	16.9 mg/l, 30 minutes
COCOAMIDOPROPYL BETAINE (CAS 61789-40-0)			
Aquatic			
Acute			
Algae	EC50	Green algae (Scenedesmus subspicatus)	0.55 mg/l, 96 hours
	NOEC	Green algae (Scenedesmus subspicatus)	0.09 mg/l, 96 hours
Crustacea	EC50	Water flea (Daphnia magna)	6.5 mg/l, 48 hours
	NOEC	Water flea (Daphnia magna)	1.6 mg/l, 48 hours
Fish	EC50	Zebra fish (Adult Brachydanio rerio)	2 mg/l, 96 hours semi-static test conditions
	NOEC	Zebra fish (Adult Brachydanio rerio)	1.7 mg/l, 96 hours semi-static test conditions
Microtox	MIC	Pseudomonas	> 3000 mg/l, 16 hours
Chronic			
Crustacea	LOEC	Water flea (Daphnia magna)	3.6 mg/l, 21 days
	NOEC	Water flea (Daphnia magna)	0.9 mg/l, 21 days

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

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

Persistence and degradability

Photolysis

Half-life (Photolysis-atmospheric)

BENZOIC ACID	< 2 Days Estimated
L-MENTHOL	16 Hours Estimated
SACCHARIN	3 Days Estimated

UV/visible spectrum wavelength

BENZOIC ACID	279 nm

Biodegradability

Percent degradation (Aerobic biodegradation-inherent)

BENZOIC ACID	> 90 %, 2 days Modified Zahn-Wellens, Activated sludge
COCOAMIDOPROPYL BETAINE	97 %, 28 days Modified Zahn-Wellens, DOC removal., Activated sludge

Biodegradability

Percent degradation (Aerobic biodegradation-inherent)

COCOAMIDOPROPYL BETAINE	99 %, 28 days Modified Zahn-Wellens, DOC removal., Activated sludge
ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT	37 %, 14 days Zahn-Wellens, Activated sludge

Percent degradation (Aerobic biodegradation-soil)

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

Percent degradation (Anaerobic biodegradation)

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

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

BENZOIC ACID	1.87
D-SORBITOL	-2.2
GLYCERIN	-1.76
L-MENTHOL	3.3
SACCHARIN	0.91
SODIUM BENZOATE	1.89

Bioconcentration factor (BCF)

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

Mobility in soil

Adsorption

Soil/sediment sorption - log Koc

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

Mobility in general

Volatility

Henry's law

2,6-DI-TERT-BUTYL-P-CRESOL	0.000004, 25 Estimated
BENZOIC ACID	0 atm m^3/mol Estimated
D-SORBITOL	0 atm m^3/mol Estimated
L-MENTHOL	0.000015 atm m^3/mol Estimated
SACCHARIN	0 atm m^3/mol Estimated

Other adverse effects Not available.

13. Disposal considerations

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

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

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

14. Transport information

DOT

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

MARPOL Annex II applies to liquids used in a ship's operation that pose a threat to the marine environment. These materials may not be transported in bulk.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
One or more components are not listed on 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.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

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

SARA 302 Extremely hazardous substance

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.

US state regulations

US. Massachusetts RTK - Substance List

2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)
BENZOIC ACID (CAS 65-85-0)
GLYCERIN (CAS 56-81-5)
SACCHARIN (CAS 81-07-2)
SESAME OIL (CAS 8008-74-0)

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

2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)
BENZOIC ACID (CAS 65-85-0)
GLYCERIN (CAS 56-81-5)
SACCHARIN (CAS 81-07-2)

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

2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)
BENZOIC ACID (CAS 65-85-0)

GLYCERIN (CAS 56-81-5)
SACCHARIN (CAS 81-07-2)
SESAME OIL (CAS 8008-74-0)

US. Rhode Island RTK

BENZOIC ACID (CAS 65-85-0)
SACCHARIN (CAS 81-07-2)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 08-18-2014

Revision date 08-18-2014

Version # 02

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

HMIS® ratings
Health: 2
Flammability: 1
Physical hazard: 0

NFPA ratings
Health: 2
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
Product and Company Identification: Product and Company Identification
Composition / Information on Ingredients: Undisclosed Ingredient Statement
Physical & Chemical Properties:
Transport Information: Agency Name, Packaging Type, and Transport Mode Selection
Regulatory Information: Risk Phrases - Class.
GHS: Classification