SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture	POLIDENT - FRESH CLEANSE (DENTURE CLEANER / BREATH FRESHENER)
Registration number	-
Synonyms	FRESH CLEANSE - LIQUAFOAM * PROJECT RAINBOW * MFC51023 * MFC50709 * DENTURE CLEANER, FORMULATED PRODUCT
Issue date	18-August-2014
Version number	02
Revision date	18-August-2014

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	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.
Uses advised against	No other uses are advised.

1.3. Details of the supplier of the safety data sheet

GlaxoSmithKline UK
980 Great West Road
Brentford, Middlesex TW8 9GS UK
UK General Information (normal business hours): +44-20-8047-5000
Email Address: msds@gsk.com
Website: www.gsk.com

1.4. Emergency telephone number

TRANSPORT EMERGENCIES::
UK In-country toll call: +(44)-870-8200418
International toll call: +1 703 527 3887
available 24 hrs/7 days; multi-language response

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification Xi;R36, R43, R52/53

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards		
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.
Environmental hazards		
Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.

Hazard summary

Physical hazards	Not classified for physical hazards.
Health hazards	Irritating to eyes. May cause sensitization by skin contact. Occupational exposure to the substance or mixture may cause adverse health effects.
Environmental hazards	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Specific hazards	None known.

Main symptoms Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: 2,6-DI-TERT-BUTYL-P-CRESOL, Benzoic acid, COCOAMIDOPROPYL BETAINE, CORNMINT OIL TERPENELESS, D-SORBITOL, ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT, GLYCERIN, L-MENTHOL, OIL OF SPEARMINT, PEPPERMINT OIL, POLYETHYLENE GLYCOL 8000, SACCHARIN, SESAME OIL, SODIUM BENZOATE, SODIUM LAURETH SULFATE

Hazard pictograms

Signal word Warning

Hazard statements

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P261	Avoid breathing mist or vapour.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P280	Wear eye/face protection.

Response

P302 + P352	IF ON SKIN: Wash with plenty of water/.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Storage Not available.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None.

2.3. Other hazards Assume that this product is capable of sustaining combustion.
See section 11 for additional information on health hazards.

SECTION 3: Composition/information on ingredients

3,2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
GLYCERIN	7	56-81-5 200-289-5	-	-	
Classification: **DSD:** - **CLP:** -					
SESAME OIL	5	8008-74-0 232-370-6	-	-	
Classification: **DSD:** - **CLP:** -					

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
D-SORBITOL	4,0 - 5,0	50-70-4 200-061-5	-	-	
Classification:	**DSD:** -				
	CLP: -				
SODIUM LAURETH SULFATE	3	9004-82-4 -	-	-	
Classification:	**DSD:** Xn;R22, Xi;R36, R53				
	CLP: Acute Tox. 4;H302, Eye Irrit. 2;H319, Aquatic Chronic 2;H411				
L-MENTHOL	1,0 - 2,0	2216-51-5 218-690-9	-	-	
Classification:	**DSD:** Xi;R38				
	CLP: Skin Irrit. 2;H315, Eye Irrit. 2;H319				
CORNMINT OIL TERPENELESS	1,22	68917-18-0 -	-	-	
Classification:	**DSD:** R10, Xn;R22-65, Xi;R38, R43, N;R51/53				
	CLP: Acute Tox. 4;H302, Asp. Tox. 1;H304, Skin Irrit. 2;H315, Skin Sens. 1;H317, Aquatic Chronic 2;H411				
COCOAMIDOPROPYL BETAINE	1	61789-40-0 263-058-8	-	-	
Classification:	**DSD:** Xi;R36, N;R50-53				
	CLP: Eye Irrit. 2;H319, Aquatic Acute 1;H400				
SODIUM BENZOATE	1	532-32-1 208-534-8	-	-	
Classification:	**DSD:** -				
	CLP: -				
Benzoic acid	<1,0	65-85-0 200-618-2	-	-	
Classification:	**DSD:** Xn;R22, Xi;R37/38-41				
	CLP: Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Dam. 1;H318, STOT SE 3;H335				
OIL OF SPEARMINT	<1,0	8008-79-5 -	-	-	
Classification:	**DSD:** R10, Xn;R22-65, Xi;R36/38, R43, N;R51/53				
	CLP: Flam. Liq. 3;H226, Acute Tox. 4;H302, Asp. Tox. 1;H304, Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319, Aquatic Chronic 2;H411				
PEPPERMINT OIL	<1,0	8006-90-4 -	-	-	
Classification:	**DSD:** Xi;R38, R43, N;R51/53				
	CLP: Skin Irrit. 2;H315, Skin Sens. 1;H317, Aquatic Chronic 2;H411				
POLYETHYLENE GLYCOL 8000	<1,0	25322-68-3 500-038-2	-	-	
Classification:	**DSD:** -				
	CLP: -				

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
SACCHARIN	<1,0	81-07-2 201-321-0	-	-	
Classification: **DSD:** C;R35					
CLP: Skin Corr. 1;H314, Eye Dam. 1;H318					
2,6-DI-TERT-BUTYL-P-CRESOL	<0,1	128-37-0 204-881-4	-	-	
Classification: **DSD:** Xn;R22, N;R50/53					
CLP: Acute Tox. 4;H302, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT	<0,1	139-33-3 2053583	-	-	
Classification: **DSD:** Xn;R20-48/20, R52/53					
CLP: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Acute Tox. 4;H332, STOT RE 2;H373, Aquatic Chronic 3;H412					
Other components below reportable levels	70,0 - 75,0				

CLP: Regulation No. 1272/2008.
DSD: Directive 67/548/EEC.
M: M-factor
vPvB: very persistent and very bioaccumulative substance.
PBT: persistent, bioaccumulative and toxic substance.
#: This substance has been assigned Community workplace exposure limit(s).

Composition comments The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

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.

4.1. Description of 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 medical advice. If ingestion of a large amount does occur, call a poison control centre immediately.

4.2. Most important symptoms and effects, both 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.

4.3. Indication of any 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 centre.

SECTION 5: Firefighting measures

General fire hazards Assume that this product is capable of sustaining combustion.

5.1. Extinguishing media

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

Unsuitable extinguishing media None known.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures	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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapours or mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2. 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.
6.3. Methods and material 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.
6.4. Reference to other sections	For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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	

Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Follow standard monitoring procedures.
Derived no-effect level (DNEL)	Not available.

Predicted no effect concentrations (PNECs)	Not available.

8.2. Exposure controls

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

General information	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Follow all local regulations if personal protective equipment (PPE) is used in the workplace.
Eye/face protection	If contact is likely, safety glasses with side shields are recommended. (eg. EN 166)
Skin protection	
- Hand protection	For prolonged or repeated skin contact use suitable protective gloves. Select suitable chemical resistant protective gloves (EN 374) with a protective index 6 (>480min permeation time).
- Other	Wear suitable protective clothing as protection against splashing or contamination. (EN 14605 for splashes, EN ISO 13982 for dust)
Respiratory protection	Where breathable aerosols/dust are formed, use suitable combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (eg. EN 14387). When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	For advice on suitable monitoring methods, seek guidance from a qualified environment, health and safety professional. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls

Hazard guidance and control recommendations	Contain spills and prevent releases and observe national regulations on emissions. Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Colour	Not available.
Odour	Not available.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.

Solubility(ies)

Solubility (water)	Not available.
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not available.

Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	No relevant additional information available.

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

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

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	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.

11.1. 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
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

Components	Species	Test results
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 sensitisation Due to partial or complete lack of data the classification is not possible.

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

Buehler Test

BENZOIC ACID	Result: negative Species: Guinea pig

Maximisation assay (Magnusson and Kligman)

BENZOIC ACID	Result: negative Species: Guinea pig

Germ cell mutagenicity Based on available data, the classification criteria are not met. 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.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

Reproductive toxicity Contains no ingredient listed as toxic to reproduction

Specific target organ toxicity - single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Mixture versus substance information No information available.

Other information None known.

SECTION 12: Ecological information

12.1. Toxicity 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

Components		Species	Test results
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
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

Components		Species	Test results
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.

12.2. 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 99 %, 28 days Modified Zahn-Wellens, DOC removal., Activated sludge
ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT	37 %, 14 days Zahn-Wellens, Activated sludge

Percent degradation (Aerobic biodegradation-ready)

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

Percent degradation (Aerobic biodegradation-soil)

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

Percent degradation (Anaerobic biodegradation)

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

12.3. 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

12.4. 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

12.5. Results of PBT and vPvB assessment Not available.

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

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

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

Disposal methods/information 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.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL73/78 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.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not listed.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Not listed.

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulations	The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.
National regulations	Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations	Not available.
References	GSK Hazard Determination
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any statements or R-phrases and H-statements under Sections 2 to 15	R10 Flammable. R20 Harmful by inhalation. R22 Harmful if swallowed. R35 Causes severe burns. R36 Irritating to eyes. R36/38 Irritating to eyes and skin. R37/38 Irritating to respiratory system and skin. R38 Irritating to skin. R41 Risk of serious damage to eyes. R43 May cause sensitization by skin contact. R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation. R50 Very toxic to aquatic organisms. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53 May cause long term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Revision information

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

Training information

Follow training instructions when handling this material.

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.