

1. Identification

Product identifier	PANOXYL ACNE FOAMING WASH 10%
Other means of identification	
Synonyms	MFC40249 * PANOXYL FOAMING WASH (10% BENZOYL PEROXIDE, BPO) * BENZOYL PEROXIDE, FORMULATED PRODUCT
Recommended use	Medicinal Product.

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

COMPANY NAME	Stiefel a GSK company
Address:	GlaxoSmithKline UK 980 Great West Road Brentford, Middlesex TW8 9GS UK
Telephone:	+(44)-20-8047-5000 (General Inquiries)
Address:	GlaxoSmithKline US 5 Moore Drive Research Triangle Park, NC 27709 USA
Telephone:	+(1)-888-825-5249 (General Inquiries)
Email:	msds@gsk.com
Website:	www.gsk.com

EMERGENCY CONTACTS

Telephone:	CHEMTREC EMERGENCY NUMBERS +(1) 703 527 3887 (International) 24/7; multi-language response
Contract Number:	CCN9484
Telephone:	VERISK 3E GLOBAL INCIDENT RESPONSE +(1) 760 476 3971 (In country) +(1) 760 476 3962 or +(1) 866 519 4752 (International) 24/7; multi-language response
Contract Number:	334878

2. Hazard(s) identification

Classified hazards

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

Label elements

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

Hazard(s) not otherwise classified (HNOC)

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

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
BENZOYL PEROXIDE	PEROXIDE, DIBENZOYL BENZOYL BENZOPEROXIDE BENZOYL SUPEROXIDE DIPHENYLGLYOXAL PEROXIDE DIBENZOYL PEROXIDE NA 2085 STCC 4919110 C14H10O4 OHS02780 RTECS DM8575000	94-36-0	< 11
GLYCERIN	GLYCEROL GLYCERIN ANHYDROUS GLYCERINE GLYCERITOL GLYCYL ALCOHOL 1,2,3-PROPANETRIOL PROPANETRIOL GLYROL GLYSANIN TRIHIDROXYPROPANE 1,2,3-TRIHIDROXYPROPANE OSMOGLYN	56-81-5	4.95 - 5.05
STEARIC ACID	1-HEPTADECANECARBOXYLIC ACID OCTADECANOIC ACID STEAROPHANIC ACID N-OCTADECANOIC ACID C18H36O2 OHS21873 RTECS WI2800000	57-11-4	1 - 2
SODIUM CHLORIDE	COMMON SALT ROCK SALT SODIUM MONOCHLORIDE SALT SEA SALT TABLE SALT SALT, WHITE CRYSTALS, SOLAR	7647-14-5	< 1
DIOCTYL SODIUM SULFOSUCCINATE	BUTANEDIOIC ACID, SULFO-, 1,4-BIS(2-ETHYLHEXYL) ESTER, SODIUM SALT DIOCTYL SULFOSUCCINATE SODIUM DIOCTYL SULFOSUCCINATE SODIUM SALT DOCUSATE SODIUM SODIUM DIOCTYL SULFOSUCCINATE	577-11-7	< 0.5
SODIUM CITRATE DIHYDRATE		6132-04-3	< 0.5
SODIUM HYDROXIDE	CAUSTIC SODA LYE SODIUM HYDRATE HIDROXIDO SODICO HIDRÓXIDO DE SÓDIO CAUSTIC SODA SOLUTION Caustic soda (as NaOH) Soda lye Soda, caustic	1310-73-2	< 0.5
SIDENT		7631-86-9	0 - 0.1
TERT-BUTYL ALCOHOL	T-BUTANOL 1,1-DIMETHYLETHANOL TRIMETHYLMETHANOL TRIMETHYL METHANOL BUTYL ALCOHOL 2-METHYL-2-PROPANOL	75-65-0	0 - < 0.1

Chemical name	Common name and synonyms	CAS number	%
XANTHAN GUM	ACTIGUM CX 9 BIOPOLYMER XB-23 XANTHAN GUM BIOZAN R ENORFLO X FLOCON 1035 GALAXY XB KELFLO KELTROL (GUM) KELZAN KENTROL POLYSACCHARIDE B 1459 RHODOPOL 23 XANFLOOD XANTHOMONAS GUM	11138-66-2	< 0.1

Other components below reportable levels

80 - < 90

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

4. First-aid measures

Inhalation	Move to fresh air. If breathing is difficult, trained personnel should give oxygen. Call a physician if symptoms develop or persist. Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Immediately flush skin with plenty of water. Take off contaminated clothing and wash before reuse. Get medical attention if symptoms occur.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). If ingestion of a large amount does occur, call a poison control center immediately. Do not induce vomiting without advice from poison control center.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation. 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 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	Water. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
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	This product will support combustion at elevated temperatures.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
--	---

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. 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. Avoid release to the environment. Observe good industrial hygiene practices.

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
DIOCTYL SODIUM SULFOSUCCINATE (CAS 577-11-7)	OHC	2	PROVISIONAL
SODIUM CHLORIDE (CAS 7647-14-5)	OHC	1	
XANTHAN GUM (CAS 11138-66-2)	OHC	1	

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

Components	Type	Value	Form
BENZOYL PEROXIDE (CAS 94-36-0)	PEL	5 mg/m3	
GLYCERIN (CAS 56-81-5)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.
SODIUM HYDROXIDE (CAS 1310-73-2)	PEL	2 mg/m3	
TERT-BUTYL ALCOHOL (CAS 75-65-0)	PEL	300 mg/m3 100 ppm	

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value
SIDENT (CAS 7631-86-9)	TWA	0.8 mg/m3 20 mppcf

US. ACGIH Threshold Limit Values

Components	Type	Value
BENZOYL PEROXIDE (CAS 94-36-0)	TWA	5 mg/m3
SODIUM HYDROXIDE (CAS 1310-73-2)	Ceiling	2 mg/m3
STEARIC ACID (CAS 57-11-4)	TWA	10 mg/m3
TERT-BUTYL ALCOHOL (CAS 75-65-0)	TWA	100 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
BENZOYL PEROXIDE (CAS 94-36-0)	TWA	5 mg/m3
SIDENT (CAS 7631-86-9)	TWA	6 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
SODIUM HYDROXIDE (CAS 1310-73-2)	Ceiling	2 mg/m ³
TERT-BUTYL ALCOHOL (CAS 75-65-0)	STEL	450 mg/m ³
	TWA	150 ppm 300 mg/m ³ 100 ppm

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

Exposure guidelines

Appropriate engineering controls General ventilation normally adequate.

Individual protection measures, such as personal protective equipment

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

Skin protection

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

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

Respiratory protection No personal respiratory protective equipment normally required. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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

9. Physical and chemical properties**Appearance**

Physical state Liquid.

Form Foam.

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 > 375.8 °F (> 191 °C) Closed Cup (Estimation based on components).

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	70 - 200 Pa.s (86 °F (30 °C))
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	None known. Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Health injuries are not known or expected under normal use.
Eye contact	Health injuries are not known or expected under normal use. Direct contact with eyes may cause temporary irritation.
Ingestion	Health injuries are not known or expected under normal use. May be harmful if swallowed. 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. May cause an allergic skin reaction.

Information on toxicological effects

Acute toxicity Expected to be a low hazard for usual industrial or commercial handling by trained personnel. May cause an allergic skin reaction.

Components	Species	Test Results
BENZOYL PEROXIDE (CAS 94-36-0)		
Acute		
Oral		
LD50	Rat	> 5000 mg/kg
Subacute		
Oral		
NOAEL	Rat	500 mg/kg/day OECD TG 422
DIOCTYL SODIUM SULFOSUCCINATE (CAS 577-11-7)		
Acute		
Dermal		
LD50	Rabbit	> 10 g/kg
Oral		
LD50	Rat	1900 mg/kg
GLYCERIN (CAS 56-81-5)		
Acute		
Oral		
LD50	Rat	> 2000 mg/kg

Components	Species	Test Results
SODIUM CHLORIDE (CAS 7647-14-5)		
Acute		
Oral		
LD50	Rat	3000 mg/kg
SODIUM HYDROXIDE (CAS 1310-73-2)		
Acute		
Dermal		
LD50	Rabbit	1350 mg/kg
Oral		
LD50	Rat	104 - 340 mg/kg
STEARIC ACID (CAS 57-11-4)		
Acute		
Oral		
LD50	Rat	> 5000 mg/kg
TERT-BUTYL ALCOHOL (CAS 75-65-0)		
Acute		
Oral		
LD50	Rat	2743 mg/kg
XANTHAN GUM (CAS 11138-66-2)		
Acute		
Inhalation		
LC50	Rat	> 21 mg/l, 1 hour exposure
Oral		
LD50	Rat	> 5000 mg/kg

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

Skin corrosion/irritation Health injuries are not known or expected under normal use.

Corrosivity

SODIUM HYDROXIDE	Literature search Result: Causes severe burns.
DIOCTYL SODIUM SULFOSUCCINATE	OECD 404 Dermal Irritation Result: Positive Species: Rabbit

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

BENZOYL PEROXIDE	OECD 404 Result: Non-irritant Species: Rabbit
------------------	---

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

Eye

DIOCTYL SODIUM SULFOSUCCINATE	Acute ocular irritation; OECD 405 Result: Positive Species: Rabbit
SODIUM HYDROXIDE	Literature search Result: Causes severe burns.
BENZOYL PEROXIDE	OECD 405 Result: Irritant Species: Rabbit

Respiratory or skin sensitization

Respiratory sensitization No studies have been conducted.

Skin sensitization May cause an allergic skin reaction.

Sensitization

BENZOYL PEROXIDE	0.5 - 10 % Local lymph node assay Result: Positive Species: Mouse
------------------	---

Sensitization

BENZOYL PEROXIDE

10 % Buehler assay

Result: Positive

Species: Guinea pig

Maximisation assay (Magnusson and Kligman); OECD 406

Result: Positive

Species: Guinea pig

DIOCTYL SODIUM SULFOSUCCINATE

Modified Draize

Result: Negative

BENZOYL PEROXIDE

Patch test

Result: Contact sensitizer.

Species: Human

Germ cell mutagenicity

Health injuries are not known or expected under normal use.

Mutagenicity

BENZOYL PEROXIDE

Ames

Result: Negative

Chromosomal aberration assay - Chinese hamster lung fibroblasts

Result: Negative

In vivo Micronucleus

Result: Negative

Species: Mouse

DIOCTYL SODIUM SULFOSUCCINATE

Mouse Lymphoma Cell (L5178Y) Assay

Result: Negative

QSAR, Leadscope

Result: Negative

Carcinogenicity

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

BENZOYL PEROXIDE

1 - 25 % Dermal application

Result: No tumourigenic effect.

Species: Mouse

Test Duration: 2 years

DIOCTYL SODIUM SULFOSUCCINATE

2 year bioassay

Result: Negative - dietary

BENZOYL PEROXIDE

2.8 - 280 mg/kg/day Lifetime Oral, Dietary study

Result: No tumourigenic effect.

Species: Mouse

Test Duration: 80 weeks

2.8 - 280 mg/kg/day Lifetime Oral, Dietary study

Result: No tumourigenic effect.

Species: Rat

Test Duration: 104 weeks

Tumour - Initiation/promotion study. Dermal administration., 20 mg/animal.

Result: Tumour promotion.

Species: Mouse

Test Duration: 1 years

IARC Monographs. Overall Evaluation of Carcinogenicity

BENZOYL PEROXIDE (CAS 94-36-0)

3 Not classifiable as to carcinogenicity to humans.

SIDENT (CAS 7631-86-9)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

Health injuries are not known or expected under normal use.

Reproductivity

BENZOYL PEROXIDE

1000 mg/kg/day OECD TG 422

Result: Decreased foetal bodyweight.

Species: Rat

Test Duration: 29 Day

1000 mg/kg/day OECD TG 422

Result: Decreased weight of testes and epididymus.

Species: Rat

Test Duration: 29 Day

Reproductivity

BENZOYL PEROXIDE

500 mg/kg/day OECD TG422

Result: NOAEL

Species: Rat

Test Duration: 29 Day

DIOCTYL SODIUM SULFOSUCCINATE

Embryofetal Development, Effects seen at maternally toxic doses

Result: Increased resorptions.

Specific target organ toxicity - single exposure

Not assigned.

Specific target organ toxicity - repeated exposure

Not assigned.

Aspiration hazard

Not established.

Chronic effects

Prolonged inhalation may be harmful.

Further information

Caution - Pharmaceutical agent. Occupational exposure to the substance or mixture may cause adverse effects.

12. Ecological information**Ecotoxicity**

Contains a substance which causes risk of hazardous effects to the environment.

Components		Species	Test Results
BENZOYL PEROXIDE (CAS 94-36-0)			
<i>Acute</i>			
	IC50	Activated sludge	35 mg/L, 30 minutes
Aquatic			
<i>Acute</i>			
Algae	EC50	Green algae (Selenastrum capricornutum)	0.07 mg/L, 72 hours Static test
Crustacea	EC50	Water flea (Daphnia magna)	0.07 mg/L, 48 hours Static test
Fish	EC50	Guppy (Juvenile Poecilia reticulata)	2 mg/L, 96 hours
		Orange-red killfish (Juvenile Oryzias latipes)	0.24 mg/L, 96 hours Flow-through test
SIDENT (CAS 7631-86-9)			
Aquatic			
<i>Acute</i>			
Crustacea	NOEC	Water flea (Daphnia magna)	> 10000 mg/l, 24 hours
Fish	NOEC	Zebra fish (Adult Brachydanio rerio)	> 10000 mg/l, 96 hours
SODIUM CHLORIDE (CAS 7647-14-5)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Algae (Nitscheria linearis)	2430 mg/l, 5 days
Crustacea	EC50	Water flea (Daphnia magna)	3310 mg/l, 48 hours Static test
Fish	EC50	Bluegill sunfish (Juvenile Lepomis macrochirus)	1295 mg/l, 96 hours Static test
		Fathead minnow (Juvenile Pimephales promelas)	6390 mg/l, 96 hours Static test
		Goldfish (Adult Carassius auratus)	7000 mg/l, 96 hours
		Mosquito fish (Adult Gambusia affinis)	17550 mg/l, 96 hours Static test
SODIUM HYDROXIDE (CAS 1310-73-2)			
Aquatic			
<i>Acute</i>			
Fish	EC50	Mosquito fish (Adult Gambusia affinis)	125 mg/l, 96 hours Static test
		Rainbow trout (Adult Oncorhynchus mykiss)	45.4 mg/l, 96 hours Static test

Components	Species	Test Results
STEARIC ACID (CAS 57-11-4)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia magna) > 32 mg/l, 47 hours EU Method C.2
Fish	LC0	Carp (Cyprinus carpio) 1000 mg/l, 48 hours OECD 203
TERT-BUTYL ALCOHOL (CAS 75-65-0)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia magna) 5504 mg/l, 48 hours
Fish	EC50	Fathead minnow (Adult Pimephales promelas) 6410 mg/l, 96 hours Flow-through test
XANTHAN GUM (CAS 11138-66-2)		
Aquatic		
<i>Acute</i>		
Fish	EC50	Rainbow trout (Adult Oncorhynchus mykiss) 420 mg/l, 96 hours Static test

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

Persistence and degradability

Photolysis

Half-life (Photolysis-atmospheric)

BENZOYL PEROXIDE	4.5 Days Estimated
STEARIC ACID	17 Hours Estimated
TERT-BUTYL ALCOHOL	14.7 Days Estimated

UV/visible spectrum wavelength

STEARIC ACID	210 nm
--------------	--------

Hydrolysis

Half-life (Hydrolysis-acidic)

PANOXYL ACNE FOAMING WASH 10%	0, pH 4 buffer solution
BENZOYL PEROXIDE	11.87 Hours Measured, pH 4 buffer solution

Half-life (Hydrolysis-neutral)

PANOXYL ACNE FOAMING WASH 10%	0, pH 7 Buffer Solution
BENZOYL PEROXIDE	5.2 Hours Measured, pH 7 Buffer Solution
TERT-BUTYL ALCOHOL	8.8 Years Calculated

Biodegradability

Percent degradation (Aerobic biodegradation-inherent)

STEARIC ACID	77 %, 28 days BOD
TERT-BUTYL ALCOHOL	> 99.9 %, 20 Days

Percent degradation (Aerobic biodegradation-ready)

PANOXYL ACNE FOAMING WASH 10%	0, Activated sludge
BENZOYL PEROXIDE	83 %, 20 Days MITI test, Activated sludge
STEARIC ACID	95 %, 22 days Sturm test
TERT-BUTYL ALCOHOL	43 %, 28 days Modified OECD Screening Test (OECD 301E), Residential sludge

Percent degradation (Aerobic biodegradation-soil)

STEARIC ACID	50 %, 13 days
--------------	---------------

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

BENZOYL PEROXIDE	3.43 (Measured).
	3.46
GLYCERIN	-1.76
STEARIC ACID	8.23
	8.42
TERT-BUTYL ALCOHOL	0.35

Bioconcentration factor (BCF)

BENZOYL PEROXIDE	92 Estimated
STEARIC ACID	> 9999 Estimated
TERT-BUTYL ALCOHOL	0.5 - 5 Measured, Cyprinus carpio, carp

Mobility in soil

Adsorption

Soil/sediment sorption - log Koc

BENZOYL PEROXIDE	3.26 Estimated
STEARIC ACID	5.86 Estimated
TERT-BUTYL ALCOHOL	1.57 Estimated

Mobility in general

Volatility

Henry's law

BENZOYL PEROXIDE	0.000004 atm m ³ /mol Calculated
STEARIC ACID	0.000051 Estimated
TERT-BUTYL ALCOHOL	0.000014 atm m ³ /mol Measured, 25 C

Other adverse effects Not available.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not discharge into drains, water courses or onto the ground. Dispose in accordance with all applicable regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Avoid discharge into water courses or onto the ground.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number	UN3082
UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s. (BENZOYL PEROXIDE)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	III
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	8, 146, 335, IB3, T4, TP1, TP29
Packaging exceptions	155
Packaging non bulk	203
Packaging bulk	241
Read safety instructions, SDS and emergency procedures before handling.	

IATA

UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (BENZOYL PEROXIDE)
Transport hazard class(es)	9
Subsidiary class(es)	-
Packaging group	III
Labels required	Not available.
Environmental hazards	Yes
ERG Code	9L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Cargo aircraft only	Allowed with restrictions.
Passenger & cargo	Allowed with restrictions.

IMDG

UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZOYL PEROXIDE), MARINE POLLUTANT

Transport hazard class(es)

Class 9

Subsidiary risk -

Packing group III

Environmental hazards

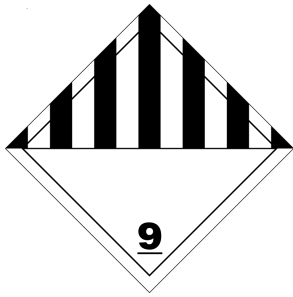
Marine pollutant Yes

EmS F-A, S-F

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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

DOT; IATA; IMDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

15. Regulatory information

US federal regulations

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

SODIUM HYDROXIDE (CAS 1310-73-2) Listed.

TERT-BUTYL ALCOHOL (CAS 75-65-0) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
BENZOYL PEROXIDE	94-36-0	< 11

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

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

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

GLYCERIN (CAS 56-81-5)

Other Flavoring Substances with OSHA PEL's

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

SODIUM HYDROXIDE (CAS 1310-73-2)

TERT-BUTYL ALCOHOL (CAS 75-65-0)

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	05-08-2018
Revision date	05-08-2018
Version #	12
Further information	HMIS® is a registered trade and service mark of the ACA.
HMIS® ratings	Health: 2 Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 0 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.