



SAFETY DATA SHEET

1. Identification

Product identifier

SENSODYNE WHITENING ISOACTIVE EU

Other means of identification

Synonyms

SENSODYNE BLACK REINDEER * SENSODYNE ISOACTIVE WHITENING GEL * BLACK REIN * SENSODYNE WHITENING ISOACTIVE FOAM * MFC 02375 * MFC 02387 * SODIUM FLUORIDE, SODIUM TRIPOLYPHOSPHATE AND POTASSIUM NITRATE, 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

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	%
GLYCERIN	GLYCEROL * GLYCERIN ANHYDROUS * GLYCERINE * GLYCERITOL * GLYCYL ALCOHOL * 1,2,3-PROPANETRIOL * PROPANETRIOL * GLYROL * GLYSANIN * TRIHIDROXYPROPANE * 1,2,3-TRIHIDROXYPROPANE * OSMOGLYN	56-81-5	20
D-SORBITOL	SORBITOL * L-GULITOL * 1,2,3,4,5,6-HEXANEHEXOL * D-SORBOL	50-70-4	18.2
ZEODENT 113		112926-00-8	9
POTASSIUM NITRATE	NITRIC ACID POTASSIUM SALT * NITRIC ACID POTASSIUM SALT (1:1)	7757-79-1	5
SIDENT		7631-86-9	5

Chemical name	Common name and synonyms	CAS number	%
SODIUM TRIPOLYPHOSPHATE	TRIPHOSPHORIC ACID, PENTASODIUM SALT * PENTASODIUM TRIPHOSPHATE * PENTASODIUM TRIPOLYPHOSPHATE * SODIUM TRIPHOSPHATE * SODIUM POLYPHOSPHATE * SODIUM PHOSPHATE	7758-29-4	5
PEG 6	HEXAETHYLENE GLYCOL * ETHANOL, 2,2'-(OXYBIS(OXY-2,1-ETHANEDILOXY-2,1-ETHANEDILOXY))BIS- * HEXAGOL * HEG * GI176500X * 1820 (GW ACN)	2615-15-8	3
ISOPENTANE	2-METHYLBUTANE * BUTANE,2-METHYL- * 1,1,2-TRIMETHYLETHANE * ISO-PENTANE * PENTANE * 2-METHYL BUTANE * ISOPENTANE (2-METHYLBUTANE) * MÉTHYLBUTANE	78-78-4	2
SODIUM METHYL COCOYL TAURATE	U248 * TAURANOL WS-HP * SODIUM N-COCOYL N-METHYL TAURATE * MIRANOL CM * 2-COYL-2-IMIDAZOLINIUM HYDROXIDE-1-(2-HYDROXYETHYL) 1-CARBOXYMETHYL SODIUM SALT, SODIUM ALCOHOLATE * ETHANESULFONIC ACID, 2-(METHYL(1-OXO-9-OCTADECENYL) AMINO)-, SODIUM SALT, (Z)- * TAURINE, N-METHYL-N-OLEOYL, SODIUM SALT * ADINOL T * AGRIMUL 9086 * AGRIWET 9086 * CONCOGEL 2 CONC * HOSTAPON T * IGEPON T-43 * IGEPON T-71 * IGEPON T-73 * IGEPON T-77 * IGEPON T * IGEPON T-51 * IGEPON T-33 * IGEPON TE * N-METHYL-N-OLEOYLTAURINE, SODIUM SALT * 2-[METHYL(1-OXO-9-OCTADECENYL)AMINO] ETHYLSULFONIC ACID, SODIUM SALT * NISSAN DIAPON S * NISSAN DIAPON T * METAUPON PASTE * OLEOYLMETHYL TAURINE SODIUM SALT * OLEOYL METHYL TAURIDE * OMT * SODIUM 2-(N-METHYL OLEAMIDO)ETHANE-1-SULFONATE * SODIUM METHYL OLEOYL TAURATE * SODIUM N-METHYL-N-OLEOYL TAURATE * SODIUM N-CIS-9-OCTADECENYL-N-METHYLTAURINE * SODIUM N-OLEOYL-N-METHYLTAURATE * SODIUM N-OLEOYL-N-METHYLTAURINE * SODIUM OLEOYLMETHYLTAURIDE	61791-42-2	1
TEGO BETAIN CK D	COCOAMIDOPROPYL BETAINE (SOLID) * FATTY ACID AMIDO ALKYL BETAINE	Unassigned	1
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	0.9

Chemical name	Common name and synonyms	CAS number	%
CARVONE	(S)-2-METHYL-5-(1-METHYLETHENYL)-2-CYCLOHEXEN-1-ONE * D-P-MENTHA-6,8-(9)-DIEN-2-ONE * D-1-METHYL-4-SIOPROPENYL-6-CYCLOHEXEN-2-ONE * 2-METHYL-5-(1-METHYLETHENYL)-2-CYCLOHEXEN-1-ONE * 2-CYCLOHEXEN-1-ONE, 2-METHYL-5-(1-METHYLETHENYL)-, (S)- * P-MENTHA-6,8-DIEN-2-ONE, (S)-(+)- * (S)-(+)-P-MENTHA-6,8-DIEN-2-ONE * (+)-CARVONE * D-CARVONE * D-(+)-CARVONE * (S)-(+)-CARVONE * CARVOL * (S)-CARVONE * DEXTRO-CARVONE * D-1-METHYL-4-ISOPROPENYL-6-CYCLOHEXEN-2-ONE * C10H14O * OHS83096 * RTECS OS8670000	2244-16-8	0.66
SODIUM HYDROXIDE	CAUSTIC SODA * SODIUM HYDRATE	1310-73-2	0.42
MENTHOL	HEXAHYDROTHYMOL * MENTHACAMPHOR * MENTHOMENTHOL * PEPPERMINT CAMPHOR * NATURAL MENTHOL	89-78-1	0.33
SODIUM FLUORIDE	SODIUM MONOFLUORIDE * NATURAL VILLIAUMITE	7681-49-4	0.25
SUCRALOSE	MICRONIZED SUCRALOSE * POWDERED SUCRALOSE * NEAT SUCRALOSE	56038-13-2	0.1
Other components below reportable levels			28.14

*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	None known. Irritation of eyes.
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	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Water.
Specific hazards arising from the chemical	This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions	Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	This product will support 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. Remove all possible sources of ignition in the surrounding area. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. 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 Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. 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. 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. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not re-use empty containers. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Avoid release to the environment.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities Level 1 Aerosol.
Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

GSK

Components

Components	Type	Value	Note
D-SORBITOL (CAS 50-70-4)	OHC	1	
MENTHOL (CAS 89-78-1)	8 HR TWA	1000 mcg/m3	
	OHC	1	SKIN SENSITISER
PEG 6 (CAS 2615-15-8)	OHC	2	

GSK Components	Type	Value	Note
SODIUM TRIPOLYPHOSPHATE (CAS 7758-29-4)	OHC	1	
SUCRALOSE (CAS 56038-13-2)	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
GLYCERIN (CAS 56-81-5)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.
SODIUM FLUORIDE (CAS 7681-49-4)	PEL	2.5 mg/m3	
SODIUM HYDROXIDE (CAS 1310-73-2)	PEL	2 mg/m3	

US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value	Form
SODIUM FLUORIDE (CAS 7681-49-4)	TWA	2.5 mg/m3	Dust.

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

Components	Type	Value
SIDENT (CAS 7631-86-9)	TWA	0.8 mg/m3 20 mppcf
ZEODENT 113 (CAS 112926-00-8)	TWA	0.8 mg/m3 20 mppcf

US. ACGIH Threshold Limit Values

Components	Type	Value
ISOPENTANE (CAS 78-78-4)	TWA	600 ppm
SODIUM FLUORIDE (CAS 7681-49-4)	TWA	2.5 mg/m3
SODIUM HYDROXIDE (CAS 1310-73-2)	Ceiling	2 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
SIDENT (CAS 7631-86-9)	TWA	6 mg/m3
SODIUM FLUORIDE (CAS 7681-49-4)	TWA	2.5 mg/m3
SODIUM HYDROXIDE (CAS 1310-73-2)	Ceiling	2 mg/m3
ZEODENT 113 (CAS 112926-00-8)	TWA	6 mg/m3

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value	Form
PEG 6 (CAS 2615-15-8)	TWA	10 mg/m3	Particulate.

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
SODIUM FLUORIDE (CAS 7681-49-4)	3 mg/l	Fluoride	Urine	*
	2 mg/l	Fluoride	Urine	*

* - For sampling details, please see the source document.

Appropriate engineering controls	General ventilation normally adequate. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.
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.
Hand protection	Not normally needed. For prolonged or repeated skin contact use suitable protective gloves.
Skin protection	
Other	Not normally needed. Wear suitable protective clothing as protection against splashing or contamination.
Respiratory protection	No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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	Aerosol. Foam.
Color	Light green.
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	77 °F (25 °C) Closed Cup
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.

Other information

Aerosol foam

Flame duration	0 s
Flame height	0 cm

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. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Fluorine. Chlorine.
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	Health injuries are not known or expected under normal use. However, ingestion is not likely to be a primary route of occupational exposure.
Inhalation	Health injuries are not known or expected under normal use.
Skin contact	Health injuries are not known or expected under normal use.
Eye contact	Health injuries are not known or expected under normal use. Irritating to eyes.

Symptoms related to the physical, chemical and toxicological characteristics
None known. Irritation of eyes.

Information on toxicological effects

Acute toxicity Health injuries are not known or expected under normal use.

Components	Species	Test Results
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CARVONE (CAS 2244-16-8)

Acute

Oral

LD50	Rat	1640 mg/kg
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D-SORBITOL (CAS 50-70-4)

Acute

Oral

LD50	Rat	15.9 g/kg
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GLYCERIN (CAS 56-81-5)

Acute

Oral

LD50	Rat	> 2000 mg/kg
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MENTHOL (CAS 89-78-1)

Acute

Oral

LD50	Rat	3200 mg/kg
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PEG 6 (CAS 2615-15-8)

Acute

Oral

LD50	Rat	32 g/kg
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SODIUM HYDROXIDE (CAS 1310-73-2)

Acute

Dermal

LD50	Rabbit	1350 mg/kg
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Components	Species	Test Results
Oral LD50	Rat	104 - 340 mg/kg
SODIUM METHYL COCOYL TAURATE (CAS 61791-42-2)		
Acute		
Oral LD50	Rat	> 2000 mg/kg
SODIUM TRIPOLYPHOSPHATE (CAS 7758-29-4)		
Acute		
Oral LD50	Rat	3120 mg/kg
SUCRALOSE (CAS 56038-13-2)		
Acute		
Oral LD50	Rat	10 g/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. Prolonged skin contact may cause temporary irritation.

Irritation Corrosion - Skin

MENTHOL

Literature data
Result: Irritating to skin
Species: Rabbit
Notes: IUCLID data

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

SUCRALOSE

0

Serious eye damage/eye irritation Irritating to eyes.

Eye

MENTHOL

Literature data
Result: Mild-moderate
Species: Rabbit

Eye / Kay and Calandra class - Intact

SUCRALOSE

4

Respiratory or skin sensitization

Respiratory sensitization Health injuries are not known or expected under normal use.

Skin sensitization Health injuries are not known or expected under normal use. Allergic skin reactions might occur following repeated contact with this material in susceptible individuals.

Sensitization

MENTHOL

Buehler assay, Literature data
Result: Negative
Species: Guinea pig
Notes: IUCLID data
Epidemiology, Literature data
Result: Low incidence of contact hypersensitivity.
Notes: IUCLID data
Modified Draize, Literature data
Result: Positive
Species: Guinea pig
Notes: IUCLID data

Sensitization
MENTHOL

Open repetitive dermal test, Literature data
Result: Negative
Species: Guinea pig
Notes: IUCLID data

Germ cell mutagenicity

Health injuries are not known or expected under normal use. No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Mutagenicity
MENTHOL

725 mg/kg In vivo-In vitro Replicative DNA synthesis
Result: Positive
Species: Rat
Alkaline Elution Assay In Vitro, Literature data
Result: Negative
Notes: IUCLID data
Ames, Literature data Literature data
Result: Negative
Notes: IUCLID data
BlueScreen mammalian cell mutation assay, Literature data
Result: Negative
Notes: IUCLID data
Chromosomal Aberration Assay In Vitro, CHO cells,
Literature data
Result: Negative
Notes: IUCLID data
Chromosomal Aberration Assay In Vitro, human
lymphocytes, Literature data
Result: Negative
Notes: IUCLID data
GreenScreen mammalian cell mutation assay, Literature data
a Result: Negative
Notes: IUCLID data
L5178Y mouse lymphoma thymidine kinase locus assay,
Literature data
Result: Negative
Notes: IUCLID data
Micronucleus Test, Literature data
Result: Negative
Species: Mouse
Notes: IUCLID data
Mutation in Drosophila melanogaster, Literature data
Result: Negative
Notes: IUCLID data
sister chromatid exchange, Literature data
Result: Negative
Notes: IUCLID data

Carcinogenicity

Health injuries are not known or expected under normal use. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

MENTHOL

<= 1000 mg/kg/day, Literature data, dietary study.
Result: Negative
Species: Rat
Test Duration: 103 weeks
Notes: IUCLID data
<= 2143 mg/kg/day, Literature data, dietary study.
Result: Negative
Species: Mouse
Notes: IUCLID data

IARC Monographs. Overall Evaluation of Carcinogenicity

SIDENT (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.
SODIUM FLUORIDE (CAS 7681-49-4) 3 Not classifiable as to carcinogenicity to humans.
ZEODENT 113 (CAS 112926-00-8) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

Health injuries are not known or expected under normal use. This product is not expected to cause reproductive or developmental effects.

Reproductivity
MENTHOL

185 mg/kg/day Embryo-foetal development, Literature data
Result: NOAEL-Highest dose.
Species: Mouse
Notes: IUCLID data
218 mg/kg/day Embryo-foetal development - Oral, Literature data
Result: NOAEL-Highest dose.
Species: Rat
Notes: IUCLID data
405 mg/kg/day Embryo-foetal development - Oral, Literature data
Result: NOAEL-Highest dose.
Species: Hamster
Notes: IUCLID data
475 mg/kg/day Embryo-foetal development - Oral, Literature data
Result: NOAEL-Highest dose.
Species: Rabbit
Notes: IUCLID data

Specific target organ toxicity - single exposure None known.

Specific target organ toxicity - repeated exposure None known.

Aspiration hazard Not available.

12. Ecological information

Ecotoxicity The product contains a substance which may cause long-term adverse effects in the environment.
Contains a substance which causes risk of hazardous effects to the environment.

Components	Species	Test Results
PEG 6 (CAS 2615-15-8)		
Aquatic		
<i>Acute</i>		
Fish	LC50	Atlantic salmon (<i>Salmo salar</i>) > 1000 mg/l, 96 hours
POTASSIUM NITRATE (CAS 7757-79-1)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 490 mg/l, 48 hours Static test
Fish	EC50	Bluegill sunfish (Adult <i>Lepomis macrochirus</i>) 420 mg/l, 96 hours Static test
		Guppy (Juvenile <i>Poecilia reticulata</i>) 180 mg/l, 96 hours Static test
		Mosquito fish (Adult <i>Gambusia affinis</i>) 22.5 mg/l, 96 hours Static test
SIDENT (CAS 7631-86-9)		
Aquatic		
<i>Acute</i>		
Crustacea	NOEC	Water flea (<i>Daphnia magna</i>) > 10000 mg/l, 24 hours
Fish	NOEC	Zebra fish (Adult <i>Brachydanio rerio</i>) > 10000 mg/l, 96 hours
SODIUM FLUORIDE (CAS 7681-49-4)		
<i>Acute</i>		
	IC50	Activated sludge 2930 mg/L, 3 hours
Aquatic		
<i>Acute</i>		
Algae	EC50	Green algae (<i>Selenastrum capricornutum</i>) 272 mg/L, 96 hours
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 340 mg/L, 48 hours Static test
Fish	EC50	Fathead minnow (Juvenile <i>Pimephales promelas</i>) 180 mg/L, 96 hours Static renewal test

Components		Species	Test Results
		Mosquito fish (Adult Gambusia affinis)	418 mg/L, 96 hours Static test
		Rainbow trout (Juvenile Oncorhynchus mykiss)	108 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
SODIUM METHYL COCOYL TAURATE (CAS 61791-42-2)			
<i>Acute</i>			
	IC50	Activated sludge	> 3200 mg/l, 3 hours Nominal
	NOEC	Activated sludge	100 mg/l, 3 hours Nominal
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Water flea (Daphnia magna)	14 mg/l, 48 hours Nominal
	NOEC	Water flea (Daphnia magna)	10 mg/l, 48 hours Nominal
SODIUM TRIPOLYPHOSPHATE (CAS 7758-29-4)			
<i>Acute</i>			
	IC50	Activated sludge	> 1000 mg/l, 3 hours
Aquatic			
<i>Acute</i>			
Algae	EC50	Algae	60 - 120 mg/l
Crustacea	EC50	Water flea (Daphnia magna)	1089 mg/l, 50 hours
Fish	EC50	Golden ide/orfe (Adult Leuciscus idus)	1650 mg/l, 48 hours
		Orange-red killfish (Adult Oryzias latipes)	590 mg/l, 48 hours Static test
SUCRALOSE (CAS 56038-13-2)			
<i>Acute</i>			
	IC50	Activated sludge	> 1000 mg/l, 3 hours
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Water flea (Daphnia magna)	> 100 mg/l, 48 hours Static test
	NOEC	Water flea (Daphnia magna)	100 mg/l, 48 hours Static test
TEGO BETAIN CK D (CAS Unassigned)			
Aquatic			
<i>Acute</i>			
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
<i>Chronic</i>			
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
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)

CARVONE 2.7 Hours Estimated

Biodegradability

Percent degradation (Aerobic biodegradation-inherent)

SODIUM METHYL COCOYL TAURATE 100 %, 28 days Modified Zahn-Wellens, Activated sludge
 SUCRALOSE 1 %, 28 days Modified Zahn-Wellens, Activated sludge
 TEGO BETAIN CK D 97 %, 28 days Modified Zahn-Wellens, DOC removal., Activated sludge
 99 %, 28 days Modified Zahn-Wellens, DOC removal., Activated sludge

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

D-SORBITOL -2.2
 GLYCERIN -1.76
 ISOPENTANE 3.27
 MENTHOL 3.4
 PEG 6 -1.05

Bioconcentration factor (BCF)

CARVONE 11 Estimated
 D-SORBITOL 1 Estimated
 SODIUM FLUORIDE 2.3 Measured

Mobility in soil

Adsorption

Soil/sediment sorption - log Koc

CARVONE 1.93 Estimated
 D-SORBITOL 0.3 Estimated

Mobility in general

Volatility

Henry's law

CARVONE 0.000077 atm m³/mol Estimated
 D-SORBITOL 0 atm m³/mol Estimated
 MENTHOL 0.000015 atm m³/mol, 25 C Estimated

Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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).

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. Do not re-use empty containers.

14. Transport information

DOT	
UN number	UN1950
UN proper shipping name	Aerosols, non-flammable, (each not exceeding 1 L capacity)
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Label(s)	2.2
Packing group	Not applicable.
Special precautions for user	Not available.
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
IATA	
UN number	UN1950
UN proper shipping name	Aerosols, non-flammable, (each not exceeding 1 L capacity)
Transport hazard class(es)	2.2
Subsidiary class(es)	-
Packaging group	Not available.
Labels required	2.2
Environmental hazards	No.
ERG Code	Not available.
Special precautions for user	Not available.
Other information	
Cargo aircraft only	Forbidden.
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS, asphyxiant
Transport hazard class(es)	
Class	2
Subsidiary risk	5A
Label(s)	2.2
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
Special precautions for user	Not available.
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.

DOT



**General information**

Classifications are for the material when offered for transport as fully regulated. Depending on the specific transport details (Ship-From/Ship To locations, quantities being shipped, type of packaging and mode of transport) it may be possible to ship this material in a manner other than fully regulated. (One example is IATA Limited or Excepted Quantity. There are others.) Be sure to review all regulatory agency packaging instructions and special provisions, referenced in this section, to identify options applicable to the specifics of your shipment.

15. Regulatory information

US federal regulations 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)

ISOPENTANE (CAS 78-78-4)	Listed.
SODIUM FLUORIDE (CAS 7681-49-4)	Listed.
SODIUM HYDROXIDE (CAS 1310-73-2)	Listed.
SODIUM TRIPOLYPHOSPHATE (CAS 7758-29-4)	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 - No
Fire Hazard - Yes
Pressure Hazard - Yes
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.
POTASSIUM NITRATE	7757-79-1	5

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)

ISOPENTANE (CAS 78-78-4)

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations**US. Massachusetts RTK - Substance List**

CARVONE (CAS 2244-16-8)
 GLYCERIN (CAS 56-81-5)
 ISOPENTANE (CAS 78-78-4)
 POTASSIUM NITRATE (CAS 7757-79-1)
 SIDENT (CAS 7631-86-9)
 SODIUM FLUORIDE (CAS 7681-49-4)
 SODIUM HYDROXIDE (CAS 1310-73-2)

SODIUM TRIPOLYPHOSPHATE (CAS 7758-29-4)
ZEODENT 113 (CAS 112926-00-8)

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

GLYCERIN (CAS 56-81-5)
ISOPENTANE (CAS 78-78-4)
POTASSIUM NITRATE (CAS 7757-79-1)
SIDENT (CAS 7631-86-9)
SODIUM FLUORIDE (CAS 7681-49-4)
SODIUM HYDROXIDE (CAS 1310-73-2)
ZEODENT 113 (CAS 112926-00-8)

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

GLYCERIN (CAS 56-81-5)
ISOPENTANE (CAS 78-78-4)
POTASSIUM NITRATE (CAS 7757-79-1)
SIDENT (CAS 7631-86-9)
SODIUM FLUORIDE (CAS 7681-49-4)
SODIUM HYDROXIDE (CAS 1310-73-2)
SODIUM TRIPOLYPHOSPHATE (CAS 7758-29-4)

US. Rhode Island RTK

ISOPENTANE (CAS 78-78-4)
POTASSIUM NITRATE (CAS 7757-79-1)
SODIUM FLUORIDE (CAS 7681-49-4)
SODIUM HYDROXIDE (CAS 1310-73-2)
SODIUM TRIPOLYPHOSPHATE (CAS 7758-29-4)

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	09-22-2014
Revision date	09-22-2014
Version #	03
Further information	HMIS® is a registered trade and service mark of the NPCA.
HMIS® ratings	Health: 2 Flammability: 3 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 3 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: Ingredients
Physical & Chemical Properties: Multiple Properties
Transport Information: Proper Shipping Name/Packing Group
Regulatory Information: United States
GHS: Classification