SAFETY DATA SHEET



1. Identification

Product identifier BEECHAMS HOT FLAVORS (WITH PARACETAMOL AND PHENYLEPHRINE HCL)

Other means of identification

Synonyms

BEECHAM HONEY LEMON * BEECHAMS HOT LEMON * BEECHAMS HOT BLACKCURRANT *
BEECHAMS HOT BLACKCURRANT POWDER * BEECHAMS FLU PLUS HOT LEMON SACHETS
* BEECHAMS FLU-PLUS HOT SOLUTION * BEECHAMS COLD AND FLU HOT LEMON AND
HONEY * BEECHAMS COLD AND FLU SACHETS HOT LEMON AND HONEY (UK) * BEECHAMS
COLD AND FLU SACHETS - HOT LEMON * BEECHAMS HOT LEMON WITH HONEY *
BEECHAMS HOT HONEY LEMON (EIRE AND MEXICO) * PANADOL COLD AND FLU HOT

LEMON AND HONEY * PARACETAMOL, ASCORBIC ACID, PHENYLEPHRINE HCL,

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

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	%
•	SUCROSE	SUGAR * CANE SUGAR * BEET SUGAR * CONFECTIONER'S SUGAR * ALPHA-D-GLUCOPYRANOSIDE, BETA-D-FRUCTOFURANOSYL *	57-50-1	55 - < 65
		GRANULATED SUGAR * SUCRALOX		

Material name: BEECHAMS HOT FLAVORS (WITH PARACETAMOL AND PHENYLEPHRINE HCL) 2829 Version #: 09 Issue date: 08-14-2014

Chemical name	Common name and synonyms	CAS number	%
PARACETAMOL	ACETAMIDE, N-(4-HYDROXYPHENYL)-* ACETANILIDE, 4'-HYDROXY-* 4'-HYDROXYACETANILIDE * PANADOL * PARACETAMOL * TYLENOL * PARA-ACETAMIDOPHENOL * 4-ACETAMINOPHENOL * PARA-HYDROXYACETANILIDE	103-90-2	10 - < 16
CITRIC ACID ANHYDROUS 60/120	CITIRIC ACID	77-92-9	6 - < 12
SODIUM CITRATE, ANHYDROUS	CITREME	68-04-2	6 - < 12
SODIUM CITRATE DIHYDRATE	1,2,3-PROPANETRICARBOXYLIC ACID, 2-HYDROXY-, TRISODIUM SALT, DIHYDRATE * CITRIC ACID, TRISODIUM SALT, DIHYDRATE * SODIUM CITRATE, DIHYDRATE * SODIUM CITRATE * TRISODIUM CITRATE DIHYDRATE * TRISODIUM CITRATE * DIHYDRATE	6132-04-3	0 - < 12
LEMON FLAVOUR PFW 610399E		Unassigned	0 - < 3.5
STARCH	ARROWROOT STARCH * CORN STARCH * POTATO STARCH * RICE STARCH	9005-25-8	0 - < 3.5
SODIUM CYCLAMATE	SODIUM CYCLOHEXANESULPHAMATE * SODIUM CYCLOHEXYL AMIDOSULPHATE * SODIUM CYCLOHEXYL SULFAMATE * SODIUM CYCLOHEXYL SULFAMIDATE * CYCLAMATE SODIUM * CYCLAMIC ACID SODIUM SALT * CYCLOHEXYL SULPHAMATE SODIUM * CYCLOHEXYL SULFAMATE SODIUM	139-05-9	1 - 2
SACCHARIN SODIUM SALT	1,2-BENZISOTHIAZOL-3(2H)-ONE, 1,1-DIOXIDE, SODIUM SALT * SACCHARIN SODIUM * SACCHARIN SOLUBLE * SODIUM SACCHARIDE * SODIUM SACCHARIN * SODIUM SACCHARINATE * SOLUBLE SACCHARIN	128-44-9	0.5 - < 1
L-ASCORBIC ACID	VITAMIN C	50-81-7	0.5 - < 0.75
PHENYLEPHRINE HYDROCHLORIDE	(-)-M-HYDROXY-ALPHA-((METHYLAMINO) METHYL)BENZYL ALCOHOL HYDROCHLORIDE * ISOPHRIN HYDROCHLORIDE * LEVOPHENYLEPHRINE HYDROCHLORIDE * METAOXEDRINE HYDROCHLORIDE * META-SYNEPHRINE HYDROCHLORIDE * NEOPHRYN * NEO-SYNEPHRINE HYDROCHLORIDE * L-PHENYLEPHRINE HYDROCHLORIDE * BENZENEMETHANOL, 3-HYDROXY-ALPHA-(METHYLAMINO)MET HYL)-, HYDROCHLORIDE, (R)-	61-76-7	0.15 - 0.2
SILICON DIOXIDE	SILICA * SILICA GEL * AMORPHOUS SILICA * DIATOMACEOUS EARTH * INFUSORIAL EARTH * CAB-O-SIL M-5	7631-86-9	0 - < 0.05

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

4. First-aid measures

InhalationUnder normal conditions of intended use, this material is not expected to be an inhalation hazard.

If dust from the material is inhaled, remove the affected person immediately to fresh air. If breathing is difficult, trained personnel should give oxygen. If not breathing, give artificial

respiration.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists. Take off

contaminated clothing and wash before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if

irritation develops and persists.

Ingestion

If swallowed, rinse mouth with water (only if the person is conscious). If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

Most important

symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation. Exposure may cause temporary irritation, redness, or discomfort.

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 centre.

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. Pre-placement and periodic health surveillance is not usually indicated. The final determination of the need for health surveillance should be determined by local risk assessment.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

Alcohol resistant foam. Water spray. Water fog. Dry chemical powder.

Carbon dioxide (CO2).

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 In the event of fire, cool tanks with water spray. Move containers from fire area if you can do so

without risk.

Specific methods

media

Use standard firefighting procedures and consider the hazards of other involved materials. Cool

containers exposed to flames with water until well after the fire is out.

General fire hazards

Assume that this product is capable of sustaining combustion.

6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from the spilled material. 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 Minimize dust generation and accumulation. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect spillage. Collect dust using a vacuum cleaner equipped with HEPA filter. Sweep up or vacuum up spillage and collect in suitable container for disposal. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. 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

Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid breathing dust. Avoid contact with skin and eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Practice good housekeeping. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Guard against dust accumulation of this material. Store away from incompatible materials (see Section 10 of the SDS).

Material name: BEECHAMS HOT FLAVORS (WITH PARACETAMOL AND PHENYLEPHRINE HCL) 2829 Version #: 09 Issue date: 08-14-2014

8. Exposure controls/personal protection

Occupational exposure limits

GSK Components	Туре	Value	
L-ASCORBIC ACID (CAS 50-81-7)	8 HR TWA	5000 mcg/m3	
00 01 1 /	OHC	1	
PARACETAMOL (CAS 103-90-2)	8 HR TWA	4000 mcg/m3	
	OHC	1	
PHENYLEPHRINE HYDROCHLORIDE (CAS 61-76-7)	15 MIN STEL	200 mcg/m3	
	8 HR TWA	30 mcg/m3	
	OHC	3	
SILICON DIOXIDE (CAS 7631-86-9)	OHC	1	
SODIUM CITRATE, ANHYDROUS (CAS 68-04-2)	8 HR TWA	5000 mcg/m3	
,	OHC	1	
US. OSHA Table Z-1 Limits	for Air Contaminants (29 CFR 1910.100	0)	
Components	Туре	Value	Form
STARCH (CAS 9005-25-8)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
SUCROSE (CAS 57-50-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CF Components	R 1910.1000) Type	Value	
SILICON DIOXIDE (CAS	TWA	0.8 mg/m3	
7631-86-9)		20 mppcf	
		20 mppci	
US. ACGIH Threshold Limit Components	t Values Type	Value	
STARCH (CAS 9005-25-8)	TWA	10 mg/m3	
SUCROSE (CAS 57-50-1)	TWA	10 mg/m3	
•		To mg/me	
US. NIOSH: Pocket Guide to Components	o Chemicai Hazards Type	Value	Form
SILICON DIOXIDE (CAS 7631-86-9)	TWA	6 mg/m3	
STARCH (CAS 9005-25-8)	TWA	5 mg/m3 10 mg/m3	Respirable. Total
SUCROSE (CAS 57-50-1)	TWA	5 mg/m3 10 mg/m3	Respirable. Total
ogical limit values	No higherical exposure limits noted for t	•	Total
-	No biological exposure limits noted for the ingredient(s).		
ropriate engineering trols	General ventilation normally adequate. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn.		
vidual protection measures Eye/face protection	, such as personal protective equipmer Not normally needed. If contact is likely		elds are recommended.
Hand protection	Not normally needed. For prolonged or	repeated skin contact use su	itable protective gloves.
Skin protection	, , , , , , , , , , , , , , , , , , , ,		, 3
Other	Not normally needed. Wear quitable protective elething as protection against an action		
Oulei	Not normally needed. Wear suitable protective clothing as protection against splashing or contamination.		

No personal respiratory protective equipment normally required. When workers are facing Respiratory protection

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

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. An occupational/industrial hygiene monitoring method has been developed for this material.

9. Physical and chemical properties

Appearance

Solid. **Physical state**

Powder filled sachet. **Form**

Color Not available. Not available. Odor **Odor threshold** Not available. Not available. Not available. Melting point/freezing point Initial boiling point and boiling Not available.

range

Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper

(%)

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Not available. Vapor pressure Vapor density Not available. Not available. Relative density

Solubility(ies)

Solubility (water) Some components are soluble in water.

Not available.

Not available.

Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity**

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Contact with

incompatible materials.

Alkaline metals. Incompatible materials

Hazardous decomposition

products

Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

Material name: BEECHAMS HOT FLAVORS (WITH PARACETAMOL AND PHENYLEPHRINE HCL)

11. Toxicological information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Inhalation of dusts may cause respiratory irritation.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Dust in the eyes will cause irritation. Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation. Exposure may cause temporary irritation,

redness, or discomfort.

Information on toxicological effects

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

Product Species Test Results

BEECHAMS HOT FLAVORS (WITH PARACETAMOL AND PHENYLEPHRINE HCL)

Acute

Oral

LD50 Rat > 2000 mg/kg

Components Species Test Results

L-ASCORBIC ACID (CAS 50-81-7)

Acute

Oral

LD50 Rat 11.9 g/kg

Subchronic

Oral

NOAEL Rat 2000 mg/kg/day

PARACETAMOL (CAS 103-90-2)

Acute

Oral

LD50 Rat 1944 mg/kg
TD Human >= 150 mg/kg

Subacute

Oral

NOAEL Rat 12500 ppm, 14 Day dietary, continuous

Subchronic

Oral

NOAEL Rat 6200 ppm, 13 weeks dietary, continuous

TD Rat >= 12500 ppm, 13 weeks dietary,

continuous

Other

LOAEL Mouse 130 ppm, 61 weeks dietary, continuous NOAEL Mouse 3200 ppm, 13 weeks dietary, continuous

0.3 %, 41 weeks dietary, continuous

TD Mouse 6100 ppm, 13 weeks dietary, continuous

1.25 %, 41 weeks dietary, continuous

PHENYLEPHRINE HYDROCHLORIDE (CAS 61-76-7)

Acute

Oral

LD50 Rat 350 mg/kg

Components **Species Test Results** Subacute Oral **NOAEL** 2000 ppm, 14 Day Dietary study, highest Mouse dose tested. Rat 2000 ppm, 14 Day Dietary study, highest dose tested. Subchronic Oral LD Mouse 5000 - 20000 ppm, 12 weeks dietary study Rat 5000 - 20000 ppm, 12 weeks dietary study LOAEL Mouse 1250 ppm, 12 weeks dietary study Rat 1250 ppm, 12 weeks dietary study

SODIUM CYCLAMATE (CAS 139-05-9)

Acute

Oral

LD50 Rat 1280 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.

Irritation Corrosion - Skin

L-ASCORBIC ACID Acute dermal irritation; OECD 404

Result: Non-irritant Species: Rabbit

Notes: EU SCC Review 1986-1990

PHENYLEPHRINE HYDROCHLORIDE Supplier SDS

Result: Non-irritant Species: Rabbit

Notes: US Pharmacopeia

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

PARACETAMOL OECD 404, Literature data

Result: Slight irritant Species: Rabbit

Serious eye damage/eye

irritation

Dust in the eyes will cause irritation. Direct contact with eyes may cause temporary irritation.

Eye

L-ASCORBIC ACID Acute ocular irritation; OECD 405

Result: Slight irritant Species: Rabbit

Notes: EU SCC Review 1986-1990

PHENYLEPHRINE HYDROCHLORIDE Clinical use

Result: Pharmacological, cardiovascular effects.

Species: Human

PARACETAMOL OECD 405

Result: Slight irritant Species: Rabbit Supplier SDS

PHENYLEPHRINE HYDROCHLORIDE Supplier SDS
Result: Irritant

Eye / Initial pain reaction score

PARACETAMOL Literature data

Respiratory or skin sensitization

Respiratory sensitization Due to partial or complete lack of data the classification is not possible.

Skin sensitization This product is not expected to cause skin sensitization.

Sensitization

PHENYLEPHRINE HYDROCHLORIDE Clinical use - Opthalmology

Result: Low incidence of contact hypersensitivity.

Species: Human

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Mutagenicity

PHENYLEPHRINE HYDROCHLORIDE Ames

Result: Negative

Notes: NTP Study report - Phenylephrine.

PARACETAMOL Ames. Literature data

Result: Negative

PHENYLEPHRINE HYDROCHLORIDE Chromosomal Aberration Assav In Vitro, CHO cells

Result: Negative

Notes: NTP Study report - Phenylephrine.

Chromosomal Aberration Assay In Vitro, Literature data **PARACETAMOL**

Result: Positive

HPRT gene mutation in human lymphocytes, Literature data

Result: Negative

In vivo Micronucleus, Literature data

Result: Negative Species: Mouse

L5178Y mouse lymphoma thymidine kinase locus assay PHENYLEPHRINE HYDROCHLORIDE

Result: Equivocal

Notes: NTP Study report - Phenylephrine.

sister chromatid exchange

Result: Positive

Notes: NTP Study report - Phenylephrine.

Carcinogenicity Health injuries are not known or expected under normal use.

1000 - 2000 mg/kg/day L-ASCORBIC ACID

Result: Negative

Species: Rat

Notes: UN SIDS Dossier PHENYLEPHRINE HYDROCHLORIDE 133 - 270 mg/kg/day

Result: Negative Species: Mouse

Test Duration: 103 weeks

Notes: NTP Report - Tox and carc studies with phenylephrine

hydrochloride. 24 - 50 mg/kg/day Result: Negative Species: Rat

Test Duration: 103 weeks

Notes: NTP Report - Tox and carc studies with phenylephrine

hydrochloride. < 6000 mg/kg/day Result: Negative

Species: Mouse

Notes: UN SIDS Dossier

PARACETAMOL Literature data

Result: Equivocal. Increase in ademomas at toxic dose.

Species: Mouse Literature data

Result: Equivocal. Liver and bladder neoplasms at toxic doses. Species: Rat

Literature data Result: Negative Species: Mouse Literature data Result: Negative Species: Rat

IARC Monographs. Overall Evaluation of Carcinogenicity

PARACETAMOL (CAS 103-90-2) 3 Not classifiable as to carcinogenicity to humans. SACCHARIN SODIUM SALT (CAS 128-44-9) 3 Not classifiable as to carcinogenicity to humans. SILICON DIOXIDE (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans. SODIUM CYCLAMATE (CAS 139-05-9) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

L-ASCORBIC ACID

Components in this product have been shown to cause birth defects and reproductive disorders in Reproductive toxicity

laboratory animals.

Reproductivity

L-ASCORBIC ACID 1.5 - 100 mg/kg/day Embryo-foetal development

Result: No adverse foetal effects observed

Species: Guinea pig

Notes: EU SCC Review 1986-1990

200 - 2000 mg/kg/day Embryo-foetal development

Result: No adverse foetal effects observed

Species: Rat

Notes: EU SCC Review 1986-1990

250 mg/kg/day Embryofetal Development, Literature data **PARACETAMOL**

Result: Foetal NOAEL

Species: Rat

387 mg/kg/day Embryofetal Development, Literature data

Result: Negative Species: Mouse

L-ASCORBIC ACID 5.2 - 520 mg/kg/day Embryo-foetal development

Result: No adverse foetal effects observed

Species: Mouse

Notes: EU SCC Review 1986-1990

PARACETAMOL 750 mg/kg/day Embryofetal Development, Literature data

Result: decrease in foetal weight, minor skeletal

abnormalities. Species: Rat

<= 1400 mg/kg/day Pre- and Post-natal development,

Literature data

Result: reduced weight gain during nursing.

Species: Rat

PHENYLEPHRINE HYDROCHLORIDE Epidemiology

Result: Equivocal, evidence of malformations, or other adverse foetal effectw from clinical use. Other studies show

no such association. Species: Human

PARACETAMOL Epidemiology, Literature data

Result: No clear association with therapeutic use.

Species: Human

PHENYLEPHRINE HYDROCHLORIDE Result: Foetal growth retardation and onset of early delivery

at doses equivalent to clinical exposure.

Species: Rabbit

Specific target organ toxicity -Causes damage to organs.

single exposure

PHENYLEPHRINE HYDROCHLORIDE Clinical use

Organ: Cardiovascular effects, some marked.

PARACETAMOL Species: Human Organ: Liver

Specific target organ toxicity -

May cause damage to organs through prolonged or repeated exposure.

repeated exposure

L-ASCORBIC ACID Species: Human

Organ: Red blood cells, kidneys. Notes: EU SCC Review 1986-1990

Not likely, due to the form of the product. **Aspiration hazard**

Caution - Pharmaceutical agent. **Further information**

12. Ecological information

Ecotoxicity No information is available about the potential of this product to produce adverse environmental

effects. The product contains a substance which may cause long-term adverse effects in the

environment.

Test Results Components **Species**

L-ASCORBIC ACID (CAS 50-81-7)

Aquatic

Acute

Fish EC50 Rainbow trout (Adult Oncorhyncus 1020 mg/l, 96 hours

mykiss)

Material name: BEECHAMS HOT FLAVORS (WITH PARACETAMOL AND PHENYLEPHRINE HCL)

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Components		Species	Test Results
PARACETAMOL (CAS	S 103-90-2)		
Aquatic			
Acute			
Algae	EC50	Green algae (Scenedesmus subspicatus)	134 mg/l, 72 hours
Crustacea	EC50	Water flea (Daphnia magna)	50 mg/l, 48 hours Static test
Fish	EC50	Fathead minnow (Juvenile Pimephales promelas)	814 mg/l, 96 hours Flow-through test
PHENYLEPHRINE HY	DROCHLORIDE (CAS 61-76-7)	
Aquatic			
Acute			
Algae	EC50	Green algae (Selenastrum capricornutum)	> 124 mg/l, 72 hours Measured
	NOEC	Algae	31 mg/l, 72 hours
Crustacea	EC50	Water flea (Daphnia magna)	0.86 mg/l, 48 hours Measured
	NOEC	Daphnia	0.21 mg/l, 48 hours
Fish	EC50	Rainbow trout (Adult Oncorhyncus mykiss)	> 100 mg/l, 96 hours Measured
	NOEC	Rainbow trout (Adult Oncorhyncus mykiss)	100 mg/l, 96 hours
SACCHARIN SODIUN	// SALT (CAS 128-4	•	
Aquatic	•	,	
Acute			
Fish	EC50	Fathead minnow (Adult Pimephales promelas)	16700 mg/l, 96 hours
SILICON DIOXIDE (C	AS 7631-86-9)		
Aquatic			
Acute			
Algae	EC50	Green algae (Selenastrum capricornutum)	440 mg/l, 72 hours
	NOEC	Green algae (Selenastrum capricornutum)	60 mg/l, 72 hours
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 24 hours Static test
Fish	EC50	Common carp (Juvenile Cyprinus carpio)	> 10000 mg/l, 72 hours
		Zebra fish (Adult Brachydanio rerio)	5000 mg/l, 96 hours Static test
Microtox	EC50	Microtox	8700 mg/l, 15 minutes
SODIUM CITRATE, ANHYDROUS (CAS 68-04-2) Aquatic			0. 00 mg., 10 mmatos
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	161 mg/l, 72 hours Static test
Fish	EC50	Bluegill sunfish (Adult Lepomis macrochirus)	2031 mg/l, 96 hours Static test
		Golden ide/orfe (Adult Leuciscus idus)	590 - 1018 mg/l, 96 hours Static test
Microtox	EC50	Microtox	18.8 mg/l, 15 minutes
	_000		

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

Persistence and degradability

Photolysis

Half-life (Photolysis-atmospheric)

SACCHARIN SODIUM SALT 3 Days Estimated

Biodegradability

Percent degradation (Aerobic biodegradation-inherent)

L-ASCORBIC ACID 100 %, 15 days Zahn-Wellens

PARACETAMOL 99 %, 5 days Modified Zahn-Wellens, Activated sludge PHENYLEPHRINE HYDROCHLORIDE 81 %, 28 days Modified Zahn-Wellens, DOC removal.,

Activated sludge

99 %, 7 days Modified Zahn-Wellens, primary biodegradation, loss of parent., Activated sludge

SODIUM CITRATE, ANHYDROUS 98 %, 2 days Modified Zahn-Wellens, Activated sludge

SUCROSE 69 % BOD5

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

L-ASCORBIC ACID -2.15 PARACETAMOL 0.36

PHENYLEPHRINE HYDROCHLORIDE 0.49 (Measured).

SUCROSE -3

Bioconcentration factor (BCF)

SACCHARIN SODIUM SALT 3 Estimated

Mobility in soil

Adsorption

Soil/sediment sorption - log Koc

SACCHARIN SODIUM SALT 1.88 Estimated

Mobility in general

Volatility

Henry's law

PARACETAMOL 0 atm m^3/mol Estimated SUCROSE 0 atm m^3/mol Estimated

Other adverse effects Not available.

13. Disposal considerations

Disposal instructionsCollect 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).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

Not regulated as a dangerous good.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

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.

the IBC Code

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)

Not listed

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

SACCHARIN SODIUM SALT (CAS 128-44-9)

SILICON DIOXIDE (CAS 7631-86-9)

STARCH (CAS 9005-25-8)

SUCROSE (CAS 57-50-1)

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

SILICON DIOXIDE (CAS 7631-86-9)

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

SACCHARIN SODIUM SALT (CAS 128-44-9)

SILICON DIOXIDE (CAS 7631-86-9)

STARCH (CAS 9005-25-8)

SUCROSE (CAS 57-50-1)

US. Rhode Island RTK

SACCHARIN SODIUM SALT (CAS 128-44-9)

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

Country(s) or region Inventory name On inventory (yes/no)*

New Zealand New Zealand Inventory No

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

No

SDS US

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 08-14-2014

Version # 09

Further information Refer to NFPA 654. Standard for the Prevention of Fire and Dust Explosions from the

Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

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

HMIS® ratings Health: 2*

Flammability: 2 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 2 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.

 ${\it Material\ name: BEECHAMS\ HOT\ FLAVORS\ (WITH\ PARACETAMOL\ AND\ PHENYLEPHRINE\ HCL)}$

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