# SAFETY DATA SHEET



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

1.1. Product identifier

Trade name or designation

BEECHAMS ALL-IN-ONE LIQUID POCKET PACK

of the mixture

Registration number

MFC 50/56 \* PARACETAMOL, GUAIPHENESIN AND PHENYLEPHRINE HYDROCHLORIDE, **Synonyms** 

FORMULATED PRODUCT

Issue date 06-August-2014

Version number 02

**Revision date** 06-August-2014

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

**Identified uses** 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.

Uses advised against No other uses are advised.

1.3. Details of the supplier of the safety data sheet

GlaxoSmithKline UK 980 Great West Road

Brentford, Middlesex TW8 9GS UK

UK General Information (normal business hours): +44-20-8047-5000

Email Address: msds@gsk.com Website: www.gsk.com

1.4. Emergency telephone

number

TRANSPORT EMERGENCIES::

UK In-country toll call: +(44)-870-8200418 International toll call: +1 703 527 3887

available 24 hrs/7 days; multi-language response

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

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

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

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

#### 2.2. Label elements

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

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

Supplemental label information None.

2.3. Other hazards Flammable liquid and vapour.

Caution - Pharmaceutical agent.

See section 11 for additional information on health hazards.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

129738 Version No.: 02 Revision date: 06-August-2014 Issue date: 06-August-2014

Material name: BEECHAMS ALL-IN-ONE LIQUID POCKET PACK

# **General information** Chemical name CAS-No. / EC No. REACH Registration No. INDEX No.

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
D-SORBITOL		< 20	50-70-4 200-061-5	-	-	
Classification:	DSD:	-				
	CLP:	-				
ETHANOL		< 20	64-17-5 200-578-6	-	603-002-00-5	
Classification:	DSD:	F;R11, Xi;R36				
	CLP:	Flam. Liq. 2;H22	25, Eye Irrit. 2;H319			
GLYCERIN		< = 20	56-81-5 200-289-5	-	-	
Classification:	DSD:	-				
	CLP:	-				
Propylene glycol		< = 10	57-55-6 200-338-0	-	-	
Classification:	DSD:	-				
	CLP:	-				
PARACETAMOL		< 3	103-90-2 203-157-5	-	-	
Classification:	DSD:	Xn;R22, R52/53				
	CLP:	Acute Tox. 4;H3	02, Aquatic Chronic	3;H412		
GUAIPHENESIN		< = 1	93-14-1 202-222-5	-	-	
Classification:		Xn;R22				
	CLP:	Acute Tox. 4;H3	02			
ACESULFAME K		< 0.5	55589-62-3 259-715-3	-	-	
Classification:	DSD:	-				
	CLP:	-				
CITRIC ACID ANHYDR	ROUS	< 0.5	77-92-9 201-069-1	-	-	
Classification:	DSD:	Xi;R36				
	CLP:	Skin Corr. 1;H31	14, Eye Irrit. 2;H319			
SODIUM CITRATE, AN	IHYDROL	JS < 0.5	68-04-2 200-675-3	-	-	
Classification:	DSD:	-				
	CLP:	-				

XANTHAN GUM < 0.2 11138-66-2 234-394-2

Classification: DSD: -

CLP: -

Material name: BEECHAMS ALL-IN-ONE LIQUID POCKET PACK 129738 Version No.: 02 Revision date: 06-August-2014 Issue date: 06-August-2014 **PHENYLEPHRINE** 61-76-7 < 0.1 **HYDROCHLORIDE** 200-517-3

Classification: **DSD:** Repr. Cat. 3;R62-63, T;R24, Xn;R22, Xi;R37, N;R50/53

> Acute Tox. 4;H302, Acute Tox. 3;H311, Acute Tox. 4;H312, STOT SE 3;H335, Repr. 2;H361, Aquatic Acute 1;H400, Aquatic Chronic 1;H410

Other components below reportable levels < 35

CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC.

M: M-factor

vPvB: very persistent and very bioaccumulative substance. PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

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

## **SECTION 4: First aid measures**

**General information** 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.

4.1. Description of 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.

Immediately flush skin with plenty of water. Take off contaminated clothing and wash before reuse. Skin contact

Get medical attention if symptoms occur.

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

If swallowed, rinse mouth with water (only if the person is conscious). If ingestion of a large Ingestion

amount does occur, call a poison control centre immediately. Do not induce vomiting without

medical advice. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and

delayed

Not established.

4.3. Indication of any immediate medical attention and special treatment needed

No specific antidotes are recommended. Treat according to locally accepted protocols. For additional guidance, refer to the current prescribing information or to the local poison control information centre.

# **SECTION 5: Firefighting measures**

General fire hazards Flammable liquid and vapour.

5.1. Extinguishing media

Suitable extinguishing

media

Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Water.

5.2. Special hazards arising from the substance or mixture Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

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

Special fire fighting procedures

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

so without risk.

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

# **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8.

Material name: BEECHAMS ALL-IN-ONE LIQUID POCKET PACK

#### For emergency responders

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during

#### 6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

#### 6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil etc) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use water spray to reduce vapours or divert vapour cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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.

#### 6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not breathe mist or vapour. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wash hands thoroughly after handling.

# 7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

**Medicinal Product** 7.3. Specific end use(s)

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## Occupational exposure limits

G	s	K
•	•	

GSK				
Components	Туре	Value		
ACESULFAME K (CAS 55589-62-3)	OHC	1		
CITRIC ACID ANHYDROUS (CAS 77-92-9)	8 HR TWA	5000 mcg/m3		
,	OHC	1		
D-SORBITOL (CAS 50-70-4)	OHC	1		
GUAIPHENESIN (CAS 93-14-1)	8 HR TWA	600 mcg/m3		
,	OHC	2		
PARACETAMOL (CAS 103-90-2)	8 HR TWA	4000 mcg/m3		
ŕ	OHC	1		
PHENYLEPHRINE HYDROCHLORIDE (CAS 61-76-7)	15 MIN STEL	200 mcg/m3		
,	8 HR TWA	30 mcg/m3		
	OHC	3		
SODIUM CITRATE, ANHYDROUS (CAS 68-04-2)	8 HR TWA	5000 mcg/m3		
*	OHC	1		
XANTHAN GUM (CAS 11138-66-2)	OHC	1		
UK. EH40 Workplace Exposure Li	mits (WELs)			
Components	Type	Value	Form	
ETHANOL (CAS 64-17-5)	TWA	1920 mg/m3 1000 ppm		
GLYCERIN (CAS 56-81-5)	TWA	10 mg/m3	Mist.	

Material name: BEECHAMS ALL-IN-ONE LIQUID POCKET PACK

**UK. EH40 Workplace Exposure Limits (WELs)** Form Components Value PARACETAMOL (CAS **TWA** 10 mg/m3 Inhalable dust. 103-90-2) Propylene glycol (CAS TW/A 474 mg/m3 Total vapour and particulates. 57-55-6) 10 mg/m3 Particulate. 150 ppm Total vapour and particulates.

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

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL) Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering

controls

An Exposure Control Approach (ECA) is established for operations involving this material based upon the OEL/Occupational Hazard Category and the outcome of a site- or operation-specific risk

assessment. General ventilation normally adequate.

Individual protection measures, such as personal protective equipment

Use personal protective equipment as required. Personal protection equipment should be chosen **General information** 

according to the CEN standards and in discussion with the supplier of the personal protective equipment. Follow all local regulations if personal protective equipment (PPE) is used in the

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

EN 166)

Skin protection

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

suitable chemical resistant protective gloves (EN 374) with a protective index 6 (>480min

permeation time).

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

contamination. (EN 14605 for splashes, EN ISO 13982 for dust)

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

concentrations above the exposure limit they must use appropriate certified respirators. Where breathable aerosols/dust are formed, use suitable combination filter for gases/vapours of organic,

inorganic, acid inorganic, alkaline compounds and toxic particles (eg. EN 14387).

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Always observe good personal hygiene measures, such as washing after handling the material Hygiene measures

> 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.

**Environmental exposure controls** 

Hazard guidance and control recommendations Environmental manager must be informed of all major releases.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

**Appearance** 

Liquid. Physical state Form Syrupy liquid. Colour Not available. Not available. Odour Odour threshold Not available. Not available. Not available. Melting point/freezing point Initial boiling point and boiling Not available.

range

37 - 40 °C (98.6 - 104 °F) Closed cup (Estimation based on components). Flash point

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

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

Not available. Vapour pressure Not available. Vapour density Not available. Relative density

Solubility(ies)

Not available. Solubility (water) Solubility (other) Not available. Not available. Partition coefficient

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. Viscosity **Explosive properties** Not available. Not available. Oxidizing properties

9.2. Other information

Percent volatile 78.2 % estimated

**SECTION 10: Stability and reactivity** 

The product is stable and non-reactive under normal conditions of use, storage and transport. 10.1. Reactivity

Material is stable under normal conditions. 10.2. Chemical stability

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Keep away from heat, sparks and open flame. Avoid temperatures exceeding the flash point. 10.4. Conditions to avoid

Contact with incompatible materials.

10.5. Incompatible materials

Strong oxidising agents.

10.6. Hazardous decomposition products None known. Irritating and/or toxic fumes and gases may be emitted upon the products

decomposition.

**SECTION 11: Toxicological information** 

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

Information on likely routes of exposure

Ingestion May be harmful if swallowed. However, ingestion is not likely to be a primary route of occupational

exposure.

Inhalation Prolonged inhalation may be harmful. May cause damage to organs by 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.

Health injuries are not known or expected under normal use. Direct contact with eyes may cause Eye contact

temporary irritation.

Not established. **Symptoms** 

11.1. Information on toxicological effects

**Acute toxicity** Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Components **Species Test results** 

ACESULFAME K (CAS 55589-62-3)

Acute Oral

LD50 Rat > 2000 mg/kg

CITRIC ACID ANHYDROUS (CAS 77-92-9)

**Acute** 

Oral

LD50 Rat 3000 mg/kg

Material name: BEECHAMS ALL-IN-ONE LIQUID POCKET PACK

Components	Species	Test results
D-SORBITOL (CAS 50-70-4)		
Acute		
Oral		
LD50	Rat	15.9 g/kg
ETHANOL (CAS 64-17-5)		
Acute		
Oral		
LD50	Rat	> 2000 mg/kg
Chronic		
Oral		
LOAEL	Monkey	40 %, 48 months % ingested calories
Subacute		
Oral		
LOEL	Rat	16.9 g/kg, 4 weeks Dietary - Dose given as g/kg/day
		6 %, 4 weeks percent in diet - continuous
0.1.1		0 %, 4 weeks percent in diet - continuous
Subchronic		
<i>Inhalation</i> LOEL	Rat	2 ml, 36 weeks haematological parameters
NOAEL	Guinea pig	3000 ppm No adverse effects
	Rat	86 mg/m3, 90 Day Daily dosing
Oral	D. (	5000 www.llocklood.co.co.co.co.co.co.co.co.co.co.co.co.co.
LOAEL	Rat	5000 mg/kg/day, 10 weeks Liver toxicity
		80 ml/kg, 85 Day Daily dose - Liver toxicity
		10.2 g/kg, 12 weeks Dosed in drinking water - Continuous
		7.7 g/kg, 12 weeks Dosed in drinking water
		- continuous
GLYCERIN (CAS 56-81-5)		
Acute		
Oral		
LD50	Rat	> 2000 mg/kg
GUAIPHENESIN (CAS 93-14-1)		
Acute		
Oral		
LD50	Rat	1510 mg/kg
PARACETAMOL (CAS 103-90-2	2)	
Acute		
Oral		
<i>Oral</i> LD50	Rat	1944 mg/kg
	Rat Human	1944 mg/kg >= 150 mg/kg
LD50		
LD50 TD <b>Subacute</b> <i>Oral</i>		>= 150 mg/kg
LD50 TD <b>Subacute</b>		
LD50 TD <b>Subacute</b> <i>Oral</i>	Human	>= 150 mg/kg
LD50 TD <b>Subacute</b> <i>Oral</i> NOAEL <b>Subchronic</b> <i>Oral</i>	Human Rat	>= 150 mg/kg  12500 ppm, 14 Day dietary, continuous
LD50 TD Subacute Oral NOAEL Subchronic Oral NOAEL	Human Rat Rat	>= 150 mg/kg  12500 ppm, 14 Day dietary, continuous  6200 ppm, 13 weeks dietary, continuous
LD50 TD <b>Subacute</b> <i>Oral</i> NOAEL <b>Subchronic</b> <i>Oral</i>	Human Rat	>= 150 mg/kg  12500 ppm, 14 Day dietary, continuous  6200 ppm, 13 weeks dietary, continuous >= 12500 ppm, 13 weeks dietary,
LD50 TD Subacute Oral NOAEL Subchronic Oral NOAEL TD	Human Rat Rat	>= 150 mg/kg  12500 ppm, 14 Day dietary, continuous  6200 ppm, 13 weeks dietary, continuous
LD50 TD Subacute Oral NOAEL Subchronic Oral NOAEL TD Other	Human  Rat  Rat  Rat	>= 150 mg/kg  12500 ppm, 14 Day dietary, continuous  6200 ppm, 13 weeks dietary, continuous >= 12500 ppm, 13 weeks dietary, continuous
LD50 TD Subacute Oral NOAEL Subchronic Oral NOAEL TD Other LOAEL	Human  Rat  Rat  Rat  Mouse	>= 150 mg/kg  12500 ppm, 14 Day dietary, continuous  6200 ppm, 13 weeks dietary, continuous >= 12500 ppm, 13 weeks dietary, continuous  130 ppm, 61 weeks dietary, continuous
LD50 TD Subacute Oral NOAEL Subchronic Oral NOAEL TD Other	Human  Rat  Rat  Rat	>= 150 mg/kg  12500 ppm, 14 Day dietary, continuous  6200 ppm, 13 weeks dietary, continuous >= 12500 ppm, 13 weeks dietary, continuous  130 ppm, 61 weeks dietary, continuous 3200 ppm, 13 weeks dietary, continuous
LD50 TD Subacute Oral NOAEL Subchronic Oral NOAEL TD Other LOAEL	Human  Rat  Rat  Rat  Mouse	>= 150 mg/kg  12500 ppm, 14 Day dietary, continuous  6200 ppm, 13 weeks dietary, continuous >= 12500 ppm, 13 weeks dietary, continuous  130 ppm, 61 weeks dietary, continuous

Components **Species Test results** 

PHENYLEPHRINE HYDROCHLORIDE (CAS 61-76-7)

Acute

Oral LD50

Rat 350 mg/kg

**Subacute** 

Oral

2000 ppm, 14 Day Dietary study, highest **NOAEL** Mouse

dose tested.

1.25 %, 41 weeks dietary, continuous

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

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

**ETHANOL OECD 404** 

Result: Negative; not considered a significant irritant

Species: Rabbit

**Irritation Corrosion - Skin** 

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

Health injuries are not known or expected under normal use. Direct contact with eyes may cause

irritation temporary irritation.

Eve

PHENYLEPHRINE HYDROCHLORIDE Clinical use

Result: Pharmacological, cardiovascular effects.

Species: Human **OECD 405** 

**ETHANOL** Result: Severe

Species: Rabbit **OECD 405** 

**PARACETAMOL** Result: Slight irritant

> Species: Rabbit Supplier SDS Result: Irritant

Eye / Initial pain reaction score

PHENYLEPHRINE HYDROCHLORIDE

**PARACETAMOL** Literature data

Not available. Respiratory sensitisation

Skin sensitisation None known. This product is not expected to cause skin sensitisation.

**Sensitisation** 

PHENYLEPHRINE HYDROCHLORIDE Clinical use - Opthalmology

Result: Low incidence of contact hypersensitivity.

Species: Human

Sensitisation

ETHANOL OECD 406

Result: negative Species: Guinea pig

GUAIPHENESIN SAR / QSAR, DEREK, Lhasa, UK

Result: negative

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Mutagenicity

**ETHANOL** 

**ETHANOL** 

ETHANOL Ames

Result: negative

PHENYLEPHRINE HYDROCHLORIDE Ames

Result: negative

Notes: NTP Study report - Phenylephrine.

PARACETAMOL Ames, Literature data

Result: negative

ETHANOL Chromosomal Aberration Assay In Vitro, CHO cells

Result: negative

PHENYLEPHRINE HYDROCHLORIDE Chromosomal Aberration Assay In Vitro, CHO cells

Result: negative

Notes: NTP Study report - Phenylephrine.

PARACETAMOL Chromosomal Aberration Assay In Vitro, Literature data

Result: positive Dominant lethal assay Result: positive

Species: Mouse Dominant lethal assay Result: positive Species: Rat

Gene mutation and repair

Result: negative Species: Bacteria Gene mutation and repair

Result: positive Species: Bacteria

PARACETAMOL HPRT gene mutation in human lymphocytes, Literature data

Result: negative

ETHANOL In vitro cytogenetics assay

Result: positive

In vitro cytogenetics assay

Result: positive

Species: Aspergillus niger

PARACETAMOL In vivo Micronucleus, Literature data

Result: negative Species: Mouse

PHENYLEPHRINE HYDROCHLORIDE L5178Y mouse lymphoma thymidine kinase locus assay

Result: Equivocal

Notes: NTP Study report - Phenylephrine.

ETHANOL L5178Y mouse lymphoma thymidine kinase locus assay

Result: Weakly positive

GUAIPHENESIN SAR / QSAR, DEREK, Lhasa, UK Result: negative

Yeast mutation Result: negative

Yeast mutation Result: positive

in vitro micronucleus assay

Result: negative

in vivo cytogenetics assay

Result: negative Species: Hamster

in vivo cytogenetics assay Result: negative

Species: Rat

in vivo cytogenetics assay Result: positive

Species: Mouse

sister chromatid exchange

Result: positive

PHENYLEPHRINE HYDROCHLORIDE sister chromatid exchange

Result: positive

Notes: NTP Study report - Phenylephrine.

Material name: BEECHAMS ALL-IN-ONE LIQUID POCKET PACK

#### Carcinogenicity

**PARACETAMOL** 

**ETHANOL** 

Health injuries are not known or expected under normal use. Contains a material (ethanol) classified as a carcinogen by external agencies. High concentrations or doses administered over

an extended period of time were required to produce adverse effects.

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.

ETHANOL Epidemiology, causation linked to excessive consumption.

Species: Human

Organ: oral cavity, larynx, pharynx, oesophagus, liver

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

ETHANOL Neonatal, inadequate study

Result: negative Species: Rat

GUAIPHENESIN SAR / QSAR, DEREK, Lhasa, UK

Result: negative inadequate study

Result: Increase in liver sarcomas

Species: Mouse inadequate study

Result: Time to tumour reduced

Species: Mouse Test Duration: 80 weeks inadequate study Result: negative Species: Hamster Test Duration: 807 Day inadequate study Result: negative Species: Mouse Test Duration: 1020 Day

inadequate study Result: negative Species: Rat inadequate study Result: negative Species: Rat

Test Duration: 78 weeks

## IARC Monographs. Overall Evaluation of Carcinogenicity

PARACETAMOL (CAS 103-90-2)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. These effects are linked only to high doses of this substance; low doses did not produce this adverse effect.

Reproductivity

ETHANOL 0.3 - 4.1 g/kg Embryo-foetal development - Oral, daily dose

Species: Monkey

Organ: facial anomolies, nervous system dysfunction 1 - 2 g/kg Embryo-foetal development - Oral, daily dose

Result: embryolethality

Species: Rat

1.8 g/kg Embryo-foetal development - Oral, daily dose

Result: Increased abortion

Species: Monkey

Material name: BEECHAMS ALL-IN-ONE LIQUID POCKET PACK

Reproductivity

**PARACETAMOL** 

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

Result: Foetal NOAEL

Species: Rat

387 mg/kg/day Embryofetal Development, Literature data

Result: negative Species: Mouse

ETHANOL 5 g/kg Embryo-foetal development - Oral, daily dose -

intravenous

Result: reduced foetal body weight; no malformations or

other variations Species: Monkey

7 - 17 g/kg Embryo-foetal development - Oral, daily dose -

gavage Species: Rat

Organ: skeletal malformations, dilated renal pelves

750 mg/kg/day Embryofetal Development, Literature data

Result: decrease in foetal weght, minor skeletal

abnormalities. Species: Rat

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

Literature data

Result: reduced weight gain during nursing.

Species: Rat

ETHANOL Embryo-foetal development - Oral, 15-30% in diet

Result: resorptions, neural defects, cardiac malformations

Species: Mouse

Embryo-foetal development - Oral, Causation is linked to

excessive consumption.

Species: Human

Organ: growth deficiency, CNS dysfunction, facial defects,

major organ malformation

GUAIPHENESIN Embryofetal Development, Epidemiology

Result: No clear association with developmental effects.

Species: Human

ETHANOL Embryofetal Development, in utero - 36% total calories

Species: Rat

Organ: gonadal growth and development

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

ETHANOL Fertility, Female, 10% in drinking water

Result: negative Species: Rat

Fertility, Female, 20-25% total calories

Result: negative Species: Rat

Fertility, Male, 5-6% v/v liquid diet

Species: Mouse

Organ: significant effects on testes and seminal vesicles

Test Duration: 70 Day

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

at doses equivalent to clinical exposure.

Species: Rabbit

**Specific target organ toxicity -** May cause damage to organs.

single exposure

PHENYLEPHRINE HYDROCHLORIDE Clinical use

Organ: Cardiovascular effects, some marked.

Species: Human Organ: Liver

Specific target organ toxicity -

May cause damage to organs through prolonged or repeated exposure by ingestion.

repeated exposure
Aspiration hazard

Not likely, due to the form of the product.

Mixture versus substance

**PARACETAMOL** 

information

No information available.

Other information Not available.

# **SECTION 12: Ecological information**

12.1. Toxicity	Ne

Not expected to be harmful to aquatic organisms.

Components		Species	Test results
ACESULFAME K (CAS 5558	9-62-3)		
Aquatic			
Acute	NOFO	Matanda (Dankai arawa)	1000 mm// 04 h aura
Crustacea	NOEC	Water flea (Daphnia magna)	> 1000 mg/l, 24 hours
Fish	EC50	Zebra fish (Adult Brachydanio rerio)	> 1000 mg/l, 96 hours
Chronic	1.050	Posts is	40000
Other	LC50	Bacteria	> 10000 mg/l
CITRIC ACID ANHYDROUS	(CAS 77-92-9)		
<b>Aquatic</b> Acute			
Crustacea	EC50	Water flea (Daphnia magna)	120 mg/l, 72 hours Static test
Fish	EC50	Bluegill sunfish (Adult Lepomis	1516 mg/l, 96 hours Static test
1 1511	2000	macrochirus)	10 To Tight, 30 Hours Statio test
		Golden ide/orfe (Adult Leuciscus idus)	440 - 760 mg/l, 96 hours Static test
Microtox	EC50	Microtox	14 mg/l, 15 minutes
ETHANOL (CAS 64-17-5)			
Aquatic			
Acute			
Algae	EC50	Blue-green algae (Microcystis aeruginosa)	1450 mg/l, 72 hours
Crustacea	EC50	Water flea (Daphnia magna)	9190 mg/l, 48 hours Static test
Fish	EC50	Fathead minnow (Adult Pimephales promelas)	14200 mg/l, 96 hours Flow-through test
		Rainbow trout (Adult Salmo gairdneri)	13000 mg/l, 96 hours Static test
GUAIPHENESIN (CAS 93-14	-1)	,	<b>3</b>
Aquatic	•		
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	> 100 mg/l, 24 hours
PARACETAMOL (CAS 103-9	0-2)		
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 HYDROC	HLORIDE (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
Propylene glycol (CAS 57-55	-6)		
Acute			
Acute	IC50	Activated sludge	> 1000 mg/l, 3 hours

Material name: BEECHAMS ALL-IN-ONE LIQUID POCKET PACK

Components		Species	Test results
Aquatic			
Acute			
Algae	EC50	Green algae (Selenastrum capricornutum)	19000 mg/l, 14 days
	NOEC	Green algae (Selenastrum capricornutum)	15000 mg/l, 14 days
Crustacea	EC50	Daphnia	43500 mg/l, 48 hours
	NOEC	Daphnia	28500 mg/l, 48 hours
Fish	EC50	Fathead minnow (Adult Pimephales promelas)	51400 mg/l, 96 hours Static test
		Rainbow trout (Adult Oncorhyncus mykiss)	51600 mg/l, 96 hours Static test
	NOEC	Fathead minnow (Adult Pimephales promelas)	41000 mg/l, 96 hours Static test
		Rainbow trout (Adult Oncorhyncus mykiss)	42000 mg/l, 96 hours Static test
Microtox	EC50	Microtox	51400 mg/l, 30 minutes
SODIUM CITRATE, ANH	YDROUS (CAS 68-0	04-2)	
Aquatic			
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
XANTHAN GUM (CAS 11	138-66-2)		
Aquatic	•		
Acute			
Fish	EC50	Rainbow trout (Adult Oncorhyncus mykiss)	420 mg/l, 96 hours Static test

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

#### 12.2. Persistence and degradability

# **Photolysis**

Half-life (Photolysis-aqueous)

**ETHANOL** 1 - 36.6 years Measured Propylene glycol 1.3 - 2.3 years Estimated

Half-life (Photolysis-atmospheric)

4 - 5.9 Days Estimated **ETHANOL** Propylene glycol 32 Hours Estimated

## Biodegradability

# Percent degradation (Aerobic biodegradation-inherent)

ACESULFAME K 0 - 8 %, 25 days Batch activated sludge (BAS), Activated

CITRIC ACID ANHYDROUS 98 %, 2 days Modified Zahn-Wellens, Activated sludge

**ETHANOL** 37 - 86 %, 5 days BOD5, Activated sludge

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

biodegradation, loss of parent., Activated sludge

62 %, 5 days BOD5, Activated sludge

Propylene glycol

79 %, 20 Days BOD20, Activated sludge

99 %, 7 days Modified Zahn-Wellens, primary

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

Percent degradation (Anaerobic biodegradation)

Propylene glycol 100 %, 9 days

## 12.3. Bioaccumulative potential

**Partition coefficient** 

n-octanol/water (log Kow)

-2.2 **D-SORBITOL ETHANOL** -0.31 **GLYCERIN** -1.76 **GUAIPHENESIN** -0.98 **PARACETAMOL** 0.36

PHENYLEPHRINE HYDROCHLORIDE 0.49 (Measured).

-0.92 Propylene glycol -1.35

**Bioconcentration factor (BCF)** 

1 Estimated **D-SORBITOL** < 1 Fstimated Propylene glycol

12.4. Mobility in soil

Adsorption

Soil/sediment sorption - log Koc

**D-SORBITOL** 0.3 Estimated **ETHANOL** 1.2 Calculated

Mobility in general

Volatility

Henry's law

CITRIC ACID ANHYDROUS < 0 atm m^3/mol Calculated, 25 °C

**D-SORBITOL** 0 atm m<sup>3</sup>/mol Estimated **ETHANOL** 0.000005 atm m3/mol Measured **PARACETAMOL** 0 atm m^3/mol Estimated 0 atm m<sup>3</sup>/mol Estimated Propylene glycol

12.5. Results of PBT

and vPvB assessment Not available.

Not available. 12.6. Other adverse effects

# **SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

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

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

emptied.

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

disposal company.

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not Disposal methods/information

discharge into drains, water courses or onto the ground. Dispose in accordance with all applicable

regulations.

Dispose in accordance with all applicable regulations. Special precautions

#### **SECTION 14: Transport information**

Classifications are for the material when offered for transport as fully regulated. Depending on General

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.

**ADR** 

Not regulated as dangerous goods.

Not subject to provisions of ADR, see SP 144.

**IATA** 

Not regulated as dangerous goods.

Not subject to provisions of IATA, see SP A58.

**IMDG** 

Not regulated as dangerous goods.

Not subject to provisions of IMDG, see SP 144.

14.7. Transport in bulk

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

MARPOL73/78 and the IBC Code

#### **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.

## **SECTION 15: Regulatory information**

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

#### **EU** regulations

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

Not listed

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

Not listed.

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

Not listed

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

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

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

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

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

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA Not listed.

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended ETHANOL (CAS 64-17-5)

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

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

Not listed.

## Other EU regulations

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

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work ETHANOL (CAS 64-17-5)

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

Not listed.

Other regulations The product is classified and labelled in accordance with EC directives or respective national laws.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

**National regulations** Follow national regulation for work with chemical agents. 15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

# **SECTION 16: Other information**

List of abbreviations Not available.

References **GSK Hazard Determination** 

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available.

#### Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R10 Flammable.

R11 Highly flammable.

R22 Harmful if swallowed.

R24 Toxic in contact with skin.

R36 Irritating to eyes.

R37 Irritating to respiratory system.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R62 Possible risk of impaired fertility.

R63 Possible risk of harm to the unborn child.

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed. H311 Toxic in contact with skin. H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H361 Suspected of damaging fertility or the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

#### **Revision information**

Product and Company Identification: Product and Company Identification Composition / Information on Ingredients: Undisclosed Ingredient Statement

Physical & Chemical Properties: Regulatory Information: United States

**GHS: Classification** 

## **Training information**

Follow training instructions when handling this material.

Disclaimer

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.

Material name: BEECHAMS ALL-IN-ONE LIQUID POCKET PACK