SAFETY DATA SHEET



1. Identification

Product identifier DAY NURSE LIQUID

Other means of identification

Synonyms DAY NURSE LIQUID (UK) * R&D CODE B19/69 * PARACETAMOL, PSEUDOEPHEDRINE

HYDRCHLORIDE AND PHOLCODINE, 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	%
GLYCERIN	GLYCEROL * GLYCERIN ANHYDROUS * GLYCERINE * GLYCERITOL * GLYCYL ALCOHOL * 1,2,3-PROPANETRIOL * PROPANETRIOL * GLYROL * GLYSANIN * TRIHYDROXYPROPANE * 1,2,3-TRIHYDROXYPROPANE * OSMOGLYN	56-81-5	33.3

Material name: DAY NURSE LIQUID SDS US

Chemical name	Common name and synonyms	CAS number	%
PROPYLENE GLYCOL	1,2-PROPANEDIOL * 1,2-DIHYDROXYPROPANE * 2-HYDROXYPROPANOL * ISOPROPYLENE GLYCOL * METHYLETHYLENE GLYCOL * MONOPROPYLENE GLYCOL * 2,3-PROPANEDIOL * ALPHA-PROPYLENE GLYCOL * (RS)-1,2-PROPANEDIOL * 1,2-PROPANEDIOL * PROPANE-1,2-DIOL (PROPYLENE GLYCOL) * PROPANE-1,2-DIOL (PROPYLENE GLYCOL) * PROPANEDIOL,1,2-	57-55-6	25.4876
SUGAR SYRUP SUCROSE (67.5%)		57-50-1	20
ETHANOL	ALCOHOL ANHYDROUS * ANHYDROUS ETHANOL * ANHYDROUS ETHYL ALCOHOL * ETHANOL 200 PROOF * ETHYL ALCOHOL * ETHYL ALCOHOL USP 200 PROOF (USI) * ETHYL ALCOHOL, 100% * ETHYL HYDROXIDE * GRAIN ALCOHOL * ETHANOL	64-17-5	5
PARACETAMOL	ACETAMIDE, N-(4-HYDROXYPHENYL)-* ACETANILIDE, 4'-HYDROXY-* 4'-HYDROXYACETANILIDE * PANADOL * PARACETAMOL * TYLENOL * PARA-ACETAMIDOPHENOL * 4-ACETAMINOPHENOL * PARA-HYDROXYACETANILIDE	103-90-2	3.3
CITRIC ACID ANHYDROUS	BETA-HYDROXYTRICARBALLYLIC ACID * ANHYDROUS CITRIC ACID * 2-HYDROXY-1,2,3-PROPANETRICARBOX YLIC ACID * CITIRIC ACID	77-92-9	0.34
SODIUM CITRATE, ANHYDROUS	CITREME	68-04-2	0.34
PSEUDOEPHEDRINE HYDROCHLORIDE	(S-(R*,R*))-ALPHA-(1-METHYLAMINO)ETH YL)BENZENEMETHANO L HYDROCHLORIDE * (+)-PSEUDOEPHEDRINE HYDROCHLORIDE * D-PSEUDOEPHEDRINE HYDROCHLORIDE * GR 95006B * 1803 (GW ACN) * RTECS UL5950000 * (+)-PSI-EPHEDRINE HYDROCHLORIDE * 71U51	345-78-8	0.2
SODIUM BENZOATE	BENZOIC ACID, SODIUM SALT * BENZOATE OF SODA * SODUIM BENZOIC ACID	532-32-1	0.1
ACESULFAME K	1,2,3-OXATHIAZIN-4(3H)-ONE, 6-METHYL-, 2,2-DIOXIDE, POTASSIUM SALT (9CI) * ACESULFAM	55589-62-3	0.06
MENTHOL	HEXAHYDROTHYMOL * MENTHACAMPHOR * MENTHOMENTHOL * PEPPERMINT CAMPHOR * NATURAL MENTHOL	89-78-1	0.05
PHOLCODINE	GR140220X	509-67-1	0.03

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

4. First-aid measures

Inhalation In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is

difficult, trained personnel should give oxygen. If not breathing, give artificial respiration. Get

medical attention immediately.

Skin contact Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing

and shoes. Take off immediately all contaminated clothing. Get medical attention if symptoms

occur

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

irritation persists: Get medical advice/attention.

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

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

advice from poison control center.

Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

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 local painty control information control.

additional guidance, refer to the local poison control information centre.

General information

Take off all contaminated clothing immediately. 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. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Water.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. 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 case of fire and/or explosion do not breathe fumes.

Specific methods
General fire hazards

media

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

Combustible liquid.

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. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate 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. 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

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 vapors or divert vapor 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. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage

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. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Wash hands thoroughly after handling.

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).

8. Exposure controls/personal protection

Occupational exposure limits

GSK			
Components	Туре	Value	Note
ACESULFAME K (CAS 55589-62-3)	OHC	1	
CITRIC ACID	8 HR TWA	5000 mcg/m3	
ANHYDROUS (CAS		•	
77-92-9)	OHC	1	
MENTHOL (CAS 89-78-1)	8 HR TWA	1000 mcg/m3	
MENTIOE (0/10 00 / 0 1)	OHC	1	SKIN SENSITISER
PARACETAMOL (CAS 103-90-2)	8 HR TWA	4000 mcg/m3	
•	OHC	1	
PSEUDOEPHEDRINE HYDROCHLORIDE (CAS 345-78-8)	8 HR TWA	200 mcg/m3	
,	OHC	2	
SODIUM BENZOATE (CAS 532-32-1)	8 HR TWA	5000 mcg/m3	
,	OHC	1	
SODIUM CITRATE, ANHYDROUS (CAS 68-04-2)	8 HR TWA	5000 mcg/m3	
50 0 1 2)	OHC	1	
US. OSHA Table Z-1 Limits for Air C	ontaminants (29 CFR 1910.1000)		
Components	Туре	Value	Form
ETHANOL (CAS 64-17-5)	PEL	1900 mg/m3 1000 ppm	
GLYCERIN (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
SUGAR SYRUP SUCROSE (67.5%) (CAS 57-50-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
JS. ACGIH Threshold Limit Values	_		
Components	Туре	Value	
ETHANOL (CAS 64-17-5)	STEL	1000 ppm	
SUGAR SYRUP SUCROSE (67.5%) (CAS 57-50-1)	TWA	10 mg/m3	
US. NIOSH: Pocket Guide to Chemic	cal Hazards		
Components	Туре	Value	Form
ETHANOL (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	
SUGAR SYRUP SUCROSE	TWA	5 mg/m3	Respirable.
(67.5%) (CAS 57-50-1)		10 mg/m3	Total
US. AIHA Workplace Environmental	Exposure Level (WEEL) Guidos	. o mg/mo	10101
OS. AIHA Workplace Environmental Components	Type	Value	Form
PROPYLENE GLYCOL (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.

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Biological limit values

Appropriate engineering

controls

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

Explosion-proof general and local exhaust ventilation. 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. An Exposure Control Approach (ECA) is established for operations involving this material based upon the OEL/Occupational Hazard

Category and the outcome of a site- or operation-specific risk assessment.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical goggles are recommended. If contact is likely, safety glasses with side shields are

recommended.

Hand protection The choice of an appropriate glove does not only depend on its material but also on other quality

features and is different from one producer to the other. Glove selection must take into account

any solvents and other hazards present.

Skin protection

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

contamination.

Respiratory protectionNo personal respiratory protective equipment normally required. If engineering controls do not

maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved

respirator must be worn.

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. When using do not smoke. Wash hands after handling and before eating. An occupational/industrial hygiene monitoring method has been developed for this material.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Solution.Bottle.

Color Orange.

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 158 °F (70 °C) Closed Cup (Estimation based on components).

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.

Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

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Viscosity Not available.

10. Stability and reactivity

ReactivityThe 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

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Alkaline metals.

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

exposure.

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

Skin contact Health injuries are not known or expected under normal use.

Eye contact Health injuries are not known or expected under normal use.

Symptoms related to the

Possible effects of overexposure in the workplace include: constipation, nausea, vomiting, headache, insomnia.

physical, chemical and heatoxicological characteristics

Information on toxicological effects

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

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

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

Subchronic

Inhalation

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 LOAEL

Rat 5000 mg/kg/day, 10 weeks Liver toxicity

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Components **Species Test Results** 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 **MENTHOL (CAS 89-78-1) Acute** Oral LD50 Rat 3200 mg/kg 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 LOAFI 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 PHOLCODINE (CAS 509-67-1) **Acute** Oral LD50 Mouse 1000 RTECS Database PSEUDOEPHEDRINE HYDROCHLORIDE (CAS 345-78-8) **Acute** Oral LD50 Mouse 371 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

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MENTHOL

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

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

PSEUDOEPHEDRINE HYDROCHLORIDE

CITRIC ACID ANHYDROUS OECD 404

Result: Mild to moderate irritant.

Species: Rabbit

PARACETAMOL OECD 404, Literature data

Result: Slight irritant Species: Rabbit

Serious eye damage/eye

Health injuries are not known or expected under normal use.

0.2

irritation

Eye

CITRIC ACID ANHYDROUS Acute ocular irritation; OECD 405

Result: Severe Irritant

Species: Rabbit

MENTHOL Literature data

Result: MIId-moderate Species: Rabbit

ETHANOL OECD 405

Result: Severe Species: Rabbit

PARACETAMOL OECD 405

Result: Slight irritant Species: Rabbit

Eye / Initial pain reaction score

PARACETAMOL Literature data

Respiratory or skin sensitization

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

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 OECD 406 Result: Negative

Species: Guinea pig
MENTHOI Open repetitive derm

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.

Mutagenicity

ETHANOL

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

ETHANOL Ames

PARACETAMOL Result: Negative Ames, Literature

Ames, Literature data Result: Negative

MENTHOL Ames, Literature dataLiterature data

Result: Negative Notes: IUCLID data

BlueScreen mammalian cell mutation assay, Literature data

Result: Negative Notes: IUCLID data

Material name: DAY NURSE LIQUID

Mutagenicity

ETHANOL

ETHANOL Chromosomal Aberration Assay In Vitro, CHO cells

Result: Negative

MENTHOL Chromosomal Aberration Assay In Vitro, CHO cells,

Literature data Result: Negative Notes: IUCLID data

PARACETAMOL Chromosomal Aberration Assay In Vitro, Literature data

Result: Positive

MENTHOL Chromosomal Aberration Assay In Vitro, human

lymphocytes, Literature data

Result: Negative Notes: IUCLID data 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

MENTHOL GreenScreen mammalian cell mutation assay, Literature dat

a Result: Negative Notes: IUCLID data

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

ETHANOL L5178Y mouse lymphoma thymidine kinase locus assay

Result: Weakly positive

MENTHOL 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 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

Material name: DAY NURSE LIQUID

ETHANOL

Mutagenicity **MENTHOL**

sister chromatid exchange, Literature data

Result: Negative Notes: IUCLID data

Carcinogenicity

Health injuries are not known or expected under normal use.

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

ETHANOL

Epidemiology, causation linked to excessive consumption.

Species: Human

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

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

ETHANOL

Neonatal, inadequate study

Result: Negative Species: Rat inadequate study

Result: Increase in liver sarcomas

Species: Mouse 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

inadequate study

Result: Time to tumour reduced

Species: Mouse

Test Duration: 80 weeks

IARC Monographs. Overall Evaluation of Carcinogenicity

PARACETAMOL (CAS 103-90-2)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Health injuries are not known or expected under normal use. 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

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Reproductivity

ETHANOL 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

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

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

MENTHOL 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

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

Embryofetal Development, in utero - 36% total calories

Species: Rat

Organ: gonadal growth and development

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

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PARACETAMOL

Reproductivity ETHANOL

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

Species: Mouse

Organ: significant effects on testes and seminal vesicles

Test Results

Test Duration: 70 Day

Specific target organ toxicity -

PARACETAMOL

single exposure

May cause damage to organs by ingestion.

Species: Human Organ: Liver

Specific target organ toxicity -

repeated exposure

Components

Causes damage to organs through prolonged or repeated exposure by ingestion.

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

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

Species

Further information Caution - Pharmaceutical agent.

12. Ecological information

Ecotoxicity Not expected to be harmful to aquatic organisms.

		Species	
ACESULFAME K (CAS	55589-62-3)		
Aquatic			
Acute			
Crustacea	NOEC	Water flea (Daphnia magna)	> 1000 mg/l, 24 hours
Fish	EC50	Zebra fish (Adult Brachydanio rerio)	> 1000 mg/l, 96 hours
Chronic			
Other	LC50	Bacteria	> 10000 mg/l
CITRIC ACID ANHYDR	OUS (CAS 77-92-	9)	
Aquatic			
Acute			
Algae	NOEC	Green algae (Scenedesmus quadricauda)	425 mg/l, 8 days Static Test
Crustacea	EC50	Water flea (Daphnia magna)	120 mg/l, 72 hours Static test
Fish	EC50	Bluegill sunfish (Adult Lepomis macrochirus)	1516 mg/l, 96 hours Static test
		Golden ide/orfe (Adult Leuciscus idus)	440 - 760 mg/l, 96 hours Static test
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 tes
		Rainbow trout (Adult Salmo gairdneri)	13000 mg/L, 96 hours Static test
PARACETAMOL (CAS	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
PROPYLENE GLYCOL	(CAS 57-55-6)		
Acute			

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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
PSEUDOEPHEDRINE I	HYDROCHLORIDE	(CAS 345-78-8)	
Acute			
	IC50	Activated sludge	> 100 mg/l, 3 hours
	NOEC	Activated sludge	3.2 mg/l, 3 hours
Aquatic			
Acute	EC50	Green algae (Selenastrum	82 mg/l, 72 hours
Algae		capricornutum)	-
Crustacea	EC50	Water flea (Daphnia magna)	> 120 mg/l, 48 hours Static test
	NOEC	Water flea (Daphnia magna)	7.5 mg/l, 48 hours Static test
Fish	EC50	Golden ide/orfe (Juvenile Leuciscus idus)	460 - 1000 mg/l, 96 hours
Chronic	N050	0	7.5 # 70.1
Algae	NOEC	Green algae (Selenastrum capricornutum)	> 7.5 mg/l, 72 hours
SODIUM BENZOATE (CAS 532-32-1)		
Aquatic	,		
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	> 100 mg/L, 96 hours Static test
Fish	EC50	Fathead minnow (Juvenile Pimephales promelas)	484 mg/L, 96 hours Flow-through test
SODIUM CITRATE, AN	HYDROUS (CAS 68	3-04-2)	
Aquatic			
Acute	EC50	Water flog (Dephais massa)	161 mg/l 72 hours Statis tost
Crustacea		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
sistence and degradab	ilitv	Golden ide/orfe (Adult Leuciscus idus)	590 - 1018 mg/l, 96 hours Static test
Photolysis	•		
Half-life (Photolys ETHANOL PROPYLENE GLY		1 - 36.6 Years Measured 1.3 - 2.3 Years Estimate	
Half-life (Photolys		1.0 - 2.0 16013 Estillate	
ETHANOL PROPYLENE GLY		4 - 5.9 Days Estimated 32 Hours Estimated	

Hydrolysis

Half-life (Hydrolysis-neutral)

PSEUDOEPHEDRINE HYDROCHLORIDE > 99 %, 14 days, Activated sludge

Biodegradability

Percent degradation (Aerobic biodegradation-inherent)

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

sludge

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

PROPYLENE GLYCOL 62 %, 5 days BOD5, Activated sludge 79 %, 20 Days BOD20, Activated sludge

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

Percent degradation (Anaerobic biodegradation)

PROPYLENE GLYCOL 100 %, 9 days

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

Residential/Industrial

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

ETHANOL -0.31**GLYCERIN** -1.76 **MENTHOL** 3.4 **PARACETAMOL** 0.36 PROPYLENE GLYCOL -1.35PSEUDOEPHEDRINE HYDROCHLORIDE 0.89 SODIUM BENZOATE 1.89 SUGAR SYRUP SUCROSE (67.5%) -3.7

Bioconcentration factor (BCF)

PROPYLENE GLYCOL < 1 Estimated

Mobility in soil

Adsorption

Sludge/biomass distribution coefficient - log Kd

PSEUDOEPHEDRINE HYDROCHLORIDE < -1.39 Measured

Soil/sediment sorption - log Koc

ETHANOL 1.2 Calculated SODIUM BENZOATE 1.16 Calculated

Mobility in general

Volatility

Henry's law

CITRIC ACID ANHYDROUS < 0 atm m^3/mol Calculated, 25 °C
ETHANOL 0.000005 atm m3/mol Measured
MENTHOL 0.000015 atm m^3/mol, 25 C Estimated

PARACETAMOL 0 atm m^3/mol Estimated
PROPYLENE GLYCOL 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 codeThe 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.

Read safety instructions, SDS and emergency procedures before handling.

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)

ETHANOL (CAS 64-17-5)

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)

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

PSEUDOEPHEDRINE HYDROCHLORIDE (CAS 0 %WV

345-78-8)

DEA Exempt Chemical Mixtures Code Number

PSEUDOEPHEDRINE HYDROCHLORIDE (CAS 8112

345-78-8)

8113

US state regulations

US. Massachusetts RTK - Substance List

ETHANOL (CAS 64-17-5) GLYCERIN (CAS 56-81-5)

SUGAR SYRUP SUCROSE (67.5%) (CAS 57-50-1)

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

ETHANOL (CAS 64-17-5) GLYCERIN (CAS 56-81-5)

Material name: DAY NURSE LIQUID

SDS US

PROPYLENE GLYCOL (CAS 57-55-6)

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

ETHANOL (CAS 64-17-5) GLYCERIN (CAS 56-81-5)

PROPYLENE GLYCOL (CAS 57-55-6)

SUGAR SYRUP SUCROSE (67.5%) (CAS 57-50-1)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

ETHANOL (CAS 64-17-5) Listed: April 29, 2011

Listed: July 1, 1988

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Inventory name

ETHANOL (CAS 64-17-5) Listed: October 1, 1987

International Inventories

Country(s) or region

3()	•	<i>y</i> (<i>y</i>	,
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

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

 Issue date
 09-08-2014

 Revision date
 09-08-2014

Version #

United States & Puerto Rico

Further information 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.

Revision Information Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Ingredients

Physical & Chemical Properties: Ecological Information: Mobility

Transport Information:

Regulatory Information: Risk Phrases - Class.

GHS: Classification

Material name: DAY NURSE LIQUID

No

On inventory (yes/no)*

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).