

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

1.1. Product identifier

Trade name or designation of the mixture PANADOL (PARACETAMOL) TABLETS / CAPLETS

Registration number -

Synonyms PANADOL TABLETS (UK AND CANADA) * PANADOL EXTRA STRENGTH CAPLETS (US AND CANADA) * PANADOL EXTRA-FORT CAPLETS * PANADOL ADVANCE * PANADOL BPI TABLETS * PANADOL BPI CAPLETS * BPI 500 MG TABLETS * PANADOL EXTEND CAPLETS * PANADOL EXTEND CAPLETS (AUSTRALIA) * FORMULA NUMBER 9464/112 * PANADOL SOLUBLE TABLETS * PANADOL CLEAR * HEDEX SOLUBLE * DOLEX EFFERVESCENTE * PANADOL EFFERVESCENT * ANAFLOIN B EFFERVESCENT * PANADOL OSTEO CAPLETS * PANADOL OSTEO TABLETS 665MG (AUSTRALIA) * PANADOL 500 MG CAPLETS * PANADOL 500 TABLETS * PANADOL ADULTOS TAB * PANADOL ADULT TABLETS * PANADOL COMPRIMADOS * DOLEX TABLETS * DOLEX TABLETS 500 MG * DOLEX ADULT TABLETS 500 MG * DOLEX TABLETS 500 MG * MFC 50577, 50578, 50699 * ALG490 * ALG 722 * PARACETAMOL, FORMULATED PRODUCT

Issue date 21-August-2014

Version number 14

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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

Caution - Pharmaceutical agent.
See section 11 for additional information on health hazards.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Material name: PANADOL (PARACETAMOL) TABLETS / CAPLETS

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General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
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PARACETAMOL	16.9 - 93.0	103-90-2 203-157-5	-	-	
Classification:	DSD: Xn;R22, R52/53				
	CLP: Acute Tox. 4;H302, Aquatic Chronic 3;H412				
SODIUM BICARBONATE	0 - < 47	144-55-8 205-633-8	-	-	
Classification:	DSD: -				
	CLP: -				
CITRIC ACID ANHYDROUS	0 - < 35	77-92-9 201-069-1	-	-	
Classification:	DSD: Xi;R36				
	CLP: Eye Irrit. 2;H319				
Starch	0.3 - 12.0	9005-25-8 232-679-6	-	-	
Classification:	DSD: -				
	CLP: -				
Calcium carbonate	0 - 10.0	471-34-1 207-439-9	-	-	
Classification:	DSD: -				
	CLP: -				
Sodium carbonate	0 - < 5	497-19-8 207-838-8	-	011-005-00-2	
Classification:	DSD: Xi;R36				
	CLP: Eye Irrit. 2;H319				
Polyvinylpyrrolidone	0 - 3.0	9003-39-8 -	-	-	
Classification:	DSD: R52/53				
	CLP: Aquatic Chronic 3;H412				
ALGINIC ACID	0 - 2.5	9005-32-7 232-680-1	-	-	
Classification:	DSD: -				
	CLP: -				
Talc	0 - 2.5	14807-96-6 238-877-9	-	-	
Classification:	DSD: -				
	CLP: -				
D-SORBITOL	0 - < 2	50-70-4 200-061-5	-	-	
Classification:	DSD: -				
	CLP: -				

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
POLYVINYLPOLYPYRROLIDONE	0 - 1.0	25249-54-1	-	-	
Classification:	DSD: R52/53				
	CLP: Aquatic Chronic 3;H412				
MAGNESIUM STEARATE	0 - 0.5	557-04-0 209-150-3	-	-	
Classification:	DSD: -				
	CLP: -				
NIPASEPT SODIUM	0 - 0.2	Unassigned	-	-	
Classification:	DSD: Xn;R22, Xi;R41				
	CLP: Acute Tox. 4;H302, Eye Dam. 1;H318				
POVIDONE 30	0 - < 0.05	9003-39-8	-	-	
Classification:	DSD: R52/53				
	CLP: Aquatic Chronic 3;H412				
Titanium dioxide	0 - 0.03	13463-67-7 236-675-5	-	-	
Classification:	DSD: -				
	CLP: -				

Other components below reportable levels 0 - 40.0

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 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.

4.1. Description of first aid measures

Inhalation Move to fresh air. If breathing is difficult, trained personnel should give oxygen. Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Call a physician if symptoms develop or persist.

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

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting without medical advice. If ingestion of a large amount does occur, call a poison control centre immediately.

4.2. Most important symptoms and effects, both acute and delayed None known.

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 No unusual fire or explosion hazards noted.

5.1. Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	None known.
5.2. Special hazards arising from the substance or mixture	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	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. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated above exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Stop the flow of material, if this is without risk. Collect spillage. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimise dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Sweep up or vacuum up spillage and collect in suitable container for disposal.
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	Provide appropriate exhaust ventilation at places where dust is formed. Minimise dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.
7.2. Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Medicinal Product

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

GSK Components	Type	Value
ALGINIC ACID (CAS 9005-32-7)	OHC	1
CITRIC ACID ANHYDROUS (CAS 77-92-9)	8 HR TWA	5000 mcg/m ³
D-SORBITOL (CAS 50-70-4)	OHC	1
MAGNESIUM STEARATE (CAS 557-04-0)	OHC	1
PARACETAMOL (CAS 103-90-2)	8 HR TWA	4000 mcg/m ³
	OHC	1

GSK Components		Type	Value	
SODIUM BICARBONATE (CAS 144-55-8)	8 HR TWA	OHC	1	5000 mcg/m3
		8 HR TWA	5000 mcg/m3	
	OHC	1		
Ireland. Occupational Exposure Limits				
Components	Type	Value	Form	
Calcium carbonate (CAS 471-34-1)	TWA	4 mg/m3	Respirable dust.	
		10 mg/m3	Total inhalable dust.	
MAGNESIUM STEARATE (CAS 557-04-0)	TWA	10 mg/m3		
PARACETAMOL (CAS 103-90-2)	TWA	10 mg/m3	Total inhalable dust.	
Starch (CAS 9005-25-8)	TWA	4 mg/m3	Respirable dust.	
		10 mg/m3	Total inhalable dust.	
Talc (CAS 14807-96-6)	TWA	10 mg/m3	Total inhalable dust.	
		0.8 mg/m3	Respirable dust.	
Titanium dioxide (CAS 13463-67-7)	TWA	4 mg/m3	Respirable dust.	
		10 mg/m3	Total inhalable dust.	
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		If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. 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				
General information		Follow all local regulations if personal protective equipment (PPE) is used in the workplace. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.		
Eye/face protection		If contact is likely, safety glasses with side shields are recommended. (eg. EN 166)		
Skin protection				
- Hand protection		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		Wear suitable protective clothing as protection against splashing or contamination. (EN 14605 for splashes, EN ISO 13982 for dust)		
Respiratory protection		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). When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.		
Thermal hazards		Wear appropriate thermal protective clothing, when necessary.		
Hygiene measures		For advice on suitable monitoring methods, seek guidance from a qualified environment, health and safety professional. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		
Environmental exposure controls				
Hazard guidance and control recommendations		Contain spills and prevent releases and observe national regulations on emissions. Environmental manager must be informed of all major releases.		

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Material name: PANADOL (PARACETAMOL) TABLETS / CAPLETS

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SDS IRELAND

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Appearance

Physical state	Solid.
Form	Tablet. Caplet.
Colour	Not available.
Odour	Not available.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
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.

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

Solubility(ies)

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

Partition coefficient (n-octanol/water)	Not available.
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Auto-ignition temperature	Not available.
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Decomposition temperature	Not available.
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Viscosity	Not available.
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Explosive properties	Not available.
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Oxidizing properties	Not available.
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9.2. Other information	No relevant additional information available.
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SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
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10.2. Chemical stability	Material is stable under normal conditions.
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10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
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10.4. Conditions to avoid	Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
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10.5. Incompatible materials	Acids. Alkali metals.
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10.6. Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.
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SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
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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. Direct contact with eyes may cause temporary irritation.

Symptoms	None known.
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11.1. Information on toxicological effects

Acute toxicity	Expected to be a low hazard for usual industrial or commercial handling by trained personnel. Harmful if swallowed.
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Components	Species	Test results
ALGINIC ACID (CAS 9005-32-7)		
Acute		
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
Calcium carbonate (CAS 471-34-1)		
Acute		
<i>Oral</i>		
LD50	Rat	6450 mg/kg
CITRIC ACID ANHYDROUS (CAS 77-92-9)		
Acute		
<i>Oral</i>		
LD50	Rat	3000 mg/kg
D-SORBITOL (CAS 50-70-4)		
Acute		
<i>Oral</i>		
LD50	Rat	15.9 g/kg
MAGNESIUM STEARATE (CAS 557-04-0)		
Acute		
<i>Oral</i>		
LD50	Rat	> 2000 mg/kg
NIPASEPT SODIUM (CAS Unassigned)		
Acute		
<i>Oral</i>		
LD50	Rat	< 2000 mg/kg
PARACETAMOL (CAS 103-90-2)		
Acute		
<i>Oral</i>		
LD50	Rat	1944 mg/kg
TD	Human	>= 150 mg/kg
Subacute		
<i>Oral</i>		
NOAEL	Rat	12500 ppm, 14 Day dietary, continuous
Subchronic		
<i>Oral</i>		
NOAEL	Rat	6200 ppm, 13 weeks dietary, continuous
TD	Rat	>= 12500 ppm, 13 weeks dietary, continuous
<i>Other</i>		
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
Polyvinylpyrrolidone (CAS 9003-39-8)		
Acute		
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
POVIDONE 30 (CAS 9003-39-8)		
Acute		
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg

Components	Species	Test results
SODIUM BICARBONATE (CAS 144-55-8)		
Acute		
Oral		
LD50	Rat	4220 mg/kg
Titanium dioxide (CAS 13463-67-7)		
Acute		
Inhalation		
LC50	Rat	6820 mcg/m3
Oral		
LD50	Rat	> 24 g/kg
Chronic		
Inhalation		
LOEC	Rat	8.6 mg/m3, 1 years TiO2 accumulated in interstitial macrophages, aggregated interstitial cells and particle laden macrophrages in lymphoid tissue.
NOAEC	Rat	250 mg/m3, 2 years Highest dose 5 mg/m3, 24 months
Subacute		
Inhalation		
LOEL	Rat	0.1 - 35 mg/m3, 4 weeks Mild macrophage hyperplasia, no change in bronchio-alveolar lavage fluid.
NOAEC	Guinea pig	26 mg/m3, 3 weeks No evidence of significant inflammation in respiratory tract.
Oral		
NOAEL	Rat	100000 ppm, 14 Day Dietary study, highest dose tested.
Subchronic		
Inhalation		
LOEC	Rat	3.2 - 20 mg/m3, 8 min Accumulation of TiO2 in macrophages and evidence of pulmonary inflammation.
* 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		
TITANIUM DIOXIDE		Acute dermal irritation; OECD 404, Literature data Result: Non-irritant Species: Rabbit Literature data Result: Non-irritant Species: Guinea pig Literature data Result: Non-irritant Species: Human
Irritation Corrosion - Skin: P.I.I. value		
MAGNESIUM STEARATE		0
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 irritation		Health injuries are not known or expected under normal use. Direct contact with eyes may cause temporary irritation.
Eye		
SODIUM CARBONATE		Acute ocular irritation; OECD 405 Result: Moderate Irritant Species: Rabbit

Eye	CITRIC ACID ANHYDROUS	Acute ocular irritation; OECD 405 Result: Severe Irritant Species: Rabbit
	PARACETAMOL	OECD 405 Result: Slight irritant Species: Rabbit
	TITANIUM DIOXIDE	OECD 405, Literature data Result: Mild irritant Species: Rabbit
Eye / Initial pain reaction score	PARACETAMOL	Literature data
Eye / Kay and Calandra class - Intact	MAGNESIUM STEARATE	4 Recovery Period: 2 days
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.	
Skin sensitisation	This product is not expected to cause skin sensitisation.	
Sensitisation	TITANIUM DIOXIDE	5 % Optimisation Test, Literature data - Vehicle: petrolatum Result: negative Species: Guinea pig Test Duration: 48 hour exposure Patch test, Literature data Result: negative Species: Human
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Mutagenicity	PARACETAMOL	Ames, Literature data Result: negative
	TITANIUM DIOXIDE	Ames, Literature data Result: negative
	PARACETAMOL	Chromosomal Aberration Assay In Vitro, Literature data Result: positive HPRT gene mutation in human lymphocytes, Literature data Result: negative In vivo Micronucleus, Literature data Result: negative Species: Mouse
	TITANIUM DIOXIDE	Micronucleus Assay in vitro, CHO cells, Literature data Result: negative Micronucleus Assay in vitro, cultured human peripheral lymphocytes, Literature data Result: positive Syrian Hamster Embryo (SHE) cell transformation assay Result: negative WIL2-NS HPRT/ t-Thioguanidine - Human B-Cell lymphoblastoid, Literature data Result: positive
Carcinogenicity	Health injuries are not known or expected under normal use. Contains a material (titanium dioxide) classified as a carcinogen by external agencies. Contains a material (talc) classified as a carcinogen by external agencies. High concentrations or doses administered over an extended period of time were required to produce adverse effects.	
	TITANIUM DIOXIDE	0.5 mg/m3, Literature data Result: negative Species: Rat Test Duration: 24 months 0.72 - 14.8 mg/m3, Literature data Result: negative Species: Mouse 10 - 250 mg/m3, Dietary study - Literature data. Result: Inflammation at all doses with alveolar/bronchiolar adenoma at the highest concentration. Species: Rat Test Duration: 24 months 25000 - 50000 ppm, Dietary study Result: negative Species: Mouse 25000 - 50000 ppm, Dietary study - Literature data. Result: negative Species: Rat

Carcinogenicity

TITANIUM DIOXIDE

7.2 - 14.8 mg/m3, Literature data

Result: Lung tumour

Species: Rat

Test Duration: 24 months

PARACETAMOL

Literature data

Result: Equivocal. Increase in adenomas 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.

POLYVINYLPIRROLIDONE (CAS 9003-39-8)

3 Not classifiable as to carcinogenicity to humans.

POVIDONE 30 (CAS 9003-39-8)

3 Not classifiable as to carcinogenicity to humans.

TALC (CAS 14807-96-6)

2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

2B Possibly carcinogenic to humans.

TITANIUM DIOXIDE (CAS 13463-67-7)

Reproductive toxicity

Contains no ingredient listed as toxic to reproduction

Reproductivity

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

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

Epidemiology, Literature data

Result: No clear association with therapeutic use.

Species: Human

Specific target organ toxicity - single exposure

Causes damage to organs by ingestion.

PARACETAMOL

Species: Human

Organ: Liver

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

Not likely, due to the form of the product.

Mixture versus substance information

No information available.

Other information

Caution - Pharmaceutical agent. Symptoms may be delayed.

SECTION 12: Ecological information**12.1. Toxicity**

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

Components**Species****Test results**

Calcium carbonate (CAS 471-34-1)

Aquatic

Fish

LC50

Western mosquitofish (Gambusia affinis) > 56000 mg/l, 24 hours

CITRIC ACID ANHYDROUS (CAS 77-92-9)

Aquatic

Acute

Algae

NOEC

Green algae (Scenedesmus quadricauda)

425 mg/l, 8 days Static Test

Components		Species	Test results
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
MAGNESIUM STEARATE (CAS 557-04-0)			
Aquatic			
<i>Acute</i>			
Fish	EC50	Orange-red killfish (Adult Oryzias latipes)	130 mg/l, 96 hours
PARACETAMOL (CAS 103-90-2)			
Aquatic			
<i>Acute</i>			
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
POLYVINYLPIRROLIDONE (CAS 25249-54-1)			
<i>Acute</i>			
	IC50	Activated sludge	> 1000 mg/l, 3 hours Static test
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Water flea (Daphnia magna)	84 mg/l, 48 hours Static test
	NOEC	Water flea (Daphnia magna)	32 mg/l, 48 hours Static test
Polyvinylpyrrolidone (CAS 9003-39-8)			
<i>Acute</i>			
	IC50	Activated sludge	> 1000 mg/l, 3 hours Static test
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Water flea (Daphnia magna)	84 mg/l, 48 hours Static test
	NOEC	Water flea (Daphnia magna)	32 mg/l, 48 hours Static test
POVIDONE 30 (CAS 9003-39-8)			
<i>Acute</i>			
	IC50	Activated sludge	> 1000 mg/l, 3 hours Static test
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Water flea (Daphnia magna)	84 mg/l, 48 hours Static test
	NOEC	Water flea (Daphnia magna)	32 mg/l, 48 hours Static test
SODIUM BICARBONATE (CAS 144-55-8)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Algae (Nitscheria linearis)	650 mg/l, 5 days
Crustacea	EC50	Water flea (Daphnia magna)	2350 mg/l, 48 hours Static test
Fish	EC50	Bluegill sunfish (Adult Lepomis macrochirus)	8250 - 9000 mg/l, 96 hours Static test
		Mosquito fish (Adult Gambusia affinis)	7550 mg/l, 96 hours Static test
Sodium carbonate (CAS 497-19-8)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Green algae (Selenastrum capricornutum)	> 800 mg/l
Crustacea	EC50	Water flea (Daphnia magna)	265 mg/l, 48 hours Static test
Fish	EC50	Bluegill sunfish (Adult Lepomis macrochirus)	300 mg/l, 96 hours Static test

Components		Species	Test results
Talc (CAS 14807-96-6)		Fathead minnow (Juvenile Pimephales promelas)	< 850 mg/l, 96 hours Static test
		Mosquito fish (Adult Gambusia affinis)	740 mg/l, 96 hours Static test
Aquatic			
<i>Acute</i>			
Fish	EC50	Zebra fish (Adult Brachydanio rerio)	> 100 g/l, 24 hours Static renewal test
Titanium dioxide (CAS 13463-67-7)			
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours Static test

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

12.2. Persistence and degradability

No data is available on the degradability of this product.

Photolysis

Half-life (Photolysis-atmospheric)

MAGNESIUM STEARATE 17 Hours Estimated

UV/visible spectrum wavelength

MAGNESIUM STEARATE 210 nm

Biodegradability

Percent degradation (Aerobic biodegradation-inherent)

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

MAGNESIUM STEARATE 77 %, 28 days BOD

PARACETAMOL 99 %, 5 days Modified Zahn-Wellens, Activated sludge

POLYVINYLPIRROLIDONE 0 %, 28 days Modified MITI test, Activated sludge

POVIDONE 30 0 %, 28 days Modified MITI test, Activated sludge

Polyvinylpyrrolidone 0 %, 28 days Modified MITI test, Activated sludge

Percent degradation (Aerobic biodegradation-ready)

MAGNESIUM STEARATE 95 %, 22 days Sturm test

Percent degradation (Aerobic biodegradation-soil)

MAGNESIUM STEARATE 50 %, 13 days

12.3. Bioaccumulative potential

Not available.

Partition coefficient

n-octanol/water (log Kow)

D-SORBITOL -2.2

PARACETAMOL 0.36

Bioconcentration factor (BCF)

D-SORBITOL 1 Estimated

MAGNESIUM STEARATE > 9999 Estimated

12.4. Mobility in soil

No data available.

Adsorption

Soil/sediment sorption - log Koc

D-SORBITOL 0.3 Estimated

MAGNESIUM STEARATE 5.86 Estimated

Mobility in general

Volatility

Henry's law

CITRIC ACID ANHYDROUS < 0 atm m³/mol Calculated, 25 °C

D-SORBITOL 0 atm m³/mol Estimated

PARACETAMOL 0 atm m³/mol Estimated

12.5. Results of PBT

Not available.

and vPvB

assessment

12.6. Other adverse effects

Not available.

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.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	MARPOL Annex II applies to liquids used in a ship's operation that pose a threat to the marine environment. These materials may not be transported in bulk.

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**
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended**
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended**
Not listed.
- 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**
Not listed.
- 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**
Not listed.
- Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**
Not listed.
- 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**
SODIUM CARBONATE (CAS 497-19-8)

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

R22 Harmful if swallowed.
R36 Irritating to eyes.
R41 Risk of serious damage to eyes.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
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.