# SAFETY DATA SHEET



### 1. Identification

**Product identifier** PANADOL (PARACETAMOL) TABLETS / CAPLETS

Other means of identification

**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 TABLETAS \* PANADOL ADULTOS TAB \* PANADOL ADULT TABLETS \* PANADOL COMPRIMADOS \* DOLEX TABLETAS \* DOLEX TABLETS 500 MG \* DOLEX ADULT TABLETS

500 MG \* DOLEX TABLETAS 500 MG \* MFC 50577, 50578, 50699 \* ALG490 \* ALG 722 \*

PARACETAMOL, FORMULATED PRODUCT

Medicinal Product Recommended use

> 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.qsk.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	%
PARACETAMOL	ACETAMIDE, N-(4-HYDROXYPHENYL)- * ACETANILIDE, 4'-HYDROXY- * 4'-HYDROXYACETANILIDE * PANADOL * PARACETAMOL * TYLENOL * PARA-ACETAMIDOPHENOL * 4-ACETAMINOPHENOL * PARA-HYDROXYACETANILIDE	103-90-2	16.9 - 93.0

**CARBONIC ACID MONOSODIUM SALT ** CARBONIC ACID SODIUM SALT (1:1) * MONOSODIUM CARBONATE ** MONOSODIUM HYDROGEN CARBONATE **RIFECS V29950000 ** SODIUM ACID CARBONATE ** CONTROL ACID CARBONATE ** COLIUM CARBONATE ** CARBONATE ** CARBONATE ** CARBONATE ** CARBONATE ** CARBONIC ACID STARCH ** CARBONIC ACID CALCIUM CARBONATE ** CARBONIC ACID CALCIUM CARBONATE ** CARBONIC ACID, DISODIUM SALT ** CALCIUM CARBONATE ** CARBONIC ACID, DISODIUM SALT ** CARBONIC ACID CARBONATE ** CARBONIC ACID, DISODIUM SALT ** DISODIUM CARBONATE ** CARBONATE ** CARBONIC ACID, DISODIUM SALT ** DISODIUM CARBONATE ** CARBONATE ** CARBONIC ACID, DISODIUM SALT ** DISODIUM CARBONATE ** CARBONATE ** CARBONIC ACID, DISODIUM SALT ** CARBONATE ** CARBONIC ACID, DISODIUM SALT ** CARBONATE ** CARBONIC ACID, DISODIUM SALT ** DISODIUM CARBONATE ** CARBONATE ** CARBONIC ACID CARBONATE ** CALCIUM CARBONATE ** DISODIUM CARBONATE ** CARBONIC ACID CALCIUM CARBONATE ** DISODIUM CARBONATE ** CARBONIC ACID CALCIUM CARBONATE ** DISODIUM CARBONIC ACID CALCIUM CARBONATE ** DISODIUM ** CARBONIC ACID CALCIUM CARBONATE ** DISODIUM ** DISTERATE ** DIBODIUM ** CARBONATE ** CARBONIC ACID CALCIUM CARBONATE ** DISODIUM ** DISTERATE ** DIBODIUM **	Chemical name	Common name and synonyms	CAS number	%
ANHYDROUS CITRIC ACID * 2-HYDROXY-1,2,3-PROPANETRICARBOX YLIC ACID * CITIRIC ACID * CARBONATE * CALCIUM MONOCARBONATE * CALCIUM MONOCARBONATE * CALCIUM CARBONATE * CARBONATE * CARBONATE * CARBONATE * DISODIUM CARBONATE * DISODIUM CARBONATE * DISODIUM CARBONATE * SODA ASH * CARBONATE * SODA ASH * CARBONATE * CARB	SODIUM BICARBONATE	* CARBONIC ACID MONOSODIUM SALT * CARBONIC ACID SODIUM SALT (1:1) * MONOSODIUM CARBONATE * MONOSODIUM HYDROGEN CARBONATE * RTECS VZ0950000 * SODIUM ACID CARBONATE * SODIUM HYDROGEN	144-55-8	0 - < 47
* POTATO STARCH * RICE STARCH  CALCIUM CARBONATE  CARBONIC ACID, CALCIUM SALT * 471-34-1 0. CALCIUM MONOCARBONATE * PRECIPITATED CALCIUM CARBONATE * CHALK  SODIUM CARBONATE  CARBONIC ACID, DISODIUM SALT * 497-19-8 0. BISODIUM CARBONATE * SODIUM CARBONATE * DISODIUM CARBONATE * SODIUM CARBONATE * S	CITRIC ACID ANHYDROUS	ANHYDROUS CITRIC ACID * 2-HYDROXY-1,2,3-PROPANETRICARBOX	77-92-9	0 - < 35
CALCIUM MONOCARBONATE * PRECIPITATED CALCIUM CARBONATE * CHALK  SODIUM CARBONATE CARBONIC ACID, DISODIUM SALT * BISODIUM CARBONATE * DISODIUM CARBONATE * DOLYNINYLPYRROLIDONE CARBONATE * SODA ASH  POLYVINYLPYRROLIDONE 1-ETHENYL-2-PYRROLIDINONE HOMOPOLYMER * POLY(N-VINYLPYRROLIDONE) * PLASDONE  ALGINIC ACID KELACID * NORGINE * POLYMANNURONIC ACID  TALC TALCUM, NON-ASBESTOS FORM * TALC * 14807-96-6 0 HYDROUS MAGNESIUM SILICATE  D-SORBITOL SORBITOL * L-GULITOL * 1,2,3,4,5,6-HEXANEHEXOL * D-SORBOL  POLYVINYLPOLYPYRROLIDONE (KOLLIDON CL-SF) * PVPP * POLY[1-(2-OXO-1-PYRROLIDINYL)-1,2-ET HANEDIYL]  MAGNESIUM STEARATE STEARIC ACID, MAGNESIUM SALT * MAGNESIUM DISTEARATE * DIBASIC MAGNESIUM DISTEARATE * DIBASIC MAGNESIUM STEARATE * DIBASIC MAGNESIUM STEARATE * DIBASIC MAGNESIUM STEARATE * MAGNESIUM DISTEARATE * DIBASIC MAGNESIUM STEARATE * DIBASIC MAGNESIUM STEARATE * MAGNESIUM DISTEARATE * DIBASIC MAGNESIUM STEARATE * DIBASIC MAGNESIUM STEARATE * MAGNESIUM DISTEARATE * DIBASIC MAGNESIUM STEARATE * DIBASIC MAGNESIUM STEARATE * MAGNESIUM DISTEARATE, PURE  NIPASEPT SODIUM  BUTYL PARABEN SODIUM  POVIDONE 30  POLY(1-VINYL-2-PYRROLIDINONE) * 2-PYRROLIDINONE, 1-VINYL-, POLYMERS  TITANIUM DIOXIDE  TITANIUM DIOXIDE  TITANIUM OXIDE * TITANIUM(IV) OXIDE * 13463-67-7	STARCH		9005-25-8	0.3 - 12.0
BISODIUM CARBONATE * DISODIUM CARBONATE * DISODIUM CARBONATE * SODA ASH  POLYVINYLPYRROLIDONE 1-ETHENYL-2-PYRROLIDINONE 9003-39-8 0-POLYMER * POLY(N-VINYLPYRROLIDONE) * PLASDONE  ALGINIC ACID KELACID NORGINE * 9005-32-7 0-POLYMANNURONIC ACID  TALC TALCUM, NON-ASBESTOS FORM * TALC * 14807-96-6 0-POLYMANNURONIC ACID  D-SORBITOL SORBITOL * L-GULITOL * 50-70-4 0-POLYVINYLPOLYPYRROLIDONE (ROLLIDON CL-SF) * PVPP * POLY(I-(2-OXO-1-PYRROLIDINYL)-1,2-ET HANEDIYL]  MAGNESIUM STEARATE STEARIC ACID, MAGNESIUM SALT * MAGNESIUM STEARATE * DIBASIC MAGNESIUM STEARATE * MAGNESIUM DISTEARATE * MAGNESIUM DISTEARATE * MAGNESIUM DISTEARATE * DIBASIC MAGNESIUM STEARATE * MAGNESIUM DISTEARATE * DIBASIC MAGNESIUM STEARATE * DIBASIC MAGNESIUM STEARATE * MAGNESIUM DISTEARATE * DIBASIC MAGNESIUM STEARATE * DIBASIC	CALCIUM CARBONATE	CALCIUM MONOCARBONATE * PRECIPITATED CALCIUM CARBONATE *	471-34-1	0 - 10.0
HOMOPOLYMER * POLY(N-VINYLPYRROLIDONE) * PLASDONE  ALGINIC ACID  KELACID * NORGINE * POLYMANNURONIC ACID  TALC  TALCUM, NON-ASBESTOS FORM * TALC * HYDROUS MAGNESIUM SILICATE  D-SORBITOL  SORBITOL * L-GULITOL * 1,2,3,4,5,6-HEXANEHEXOL * D-SORBOL  POLYVINYLPOLYPYRROLIDONE  CROSPOVIDONE * CROSPOVIDONE (KOLLIDON CL-SF) * PVPP * POLY[1-(2-OXO-1-PYRROLIDINYL)-1,2-ET HANEDIYL]  MAGNESIUM STEARATE  STEARIC ACID, MAGNESIUM SALT * MAGNESIUM STEARATE * DIBASIC MAGNESIUM STEARATE * DIBASIC MAGNESIUM STEARATE * MAGNESIUM DISTEARATE, PURE  NIPASEPT SODIUM  BUTYL PARABEN SODIUM  Unassigned  O  POVIDONE 30  POly(1-ethenylpyrrolid-2-one) * CROSPOVIDONE * POLY(1-VINYL-2-PYRROLIDINONE) * 2-PYRROLIDINONE, 1-VINYL-, POLYMERS  TITANIUM DIOXIDE  TITANIUM OXIDE * TITANIUM (IV) OXIDE * 13463-67-7  O	SODIUM CARBONATE	BISODIUM CARBONATE * DISODIUM	497-19-8	0 - < 5
TALC TALCUM, NON-ASBESTOS FORM * TALC * 14807-96-6 0   HYDROUS MAGNESIUM SILICATE  D-SORBITOL SORBITOL * L-GULITOL * 50-70-4 0   1,2,3,4,5,6-HEXANEHEXOL * D-SORBOL    POLYVINYLPOLYPYRROLIDONE CROSPOVIDONE * CROSPOVIDONE (KOLLIDON CL-SF) * PVPP * POLY[1-(2-OXO-1-PYRROLIDINYL)-1,2-ET HANEDIYL]    MAGNESIUM STEARATE STEARIC ACID, MAGNESIUM SALT * MAGNESIUM DISTEARATE * DIBASIC MAGNESIUM DISTEARATE * DIBASIC MAGNESIUM DISTEARATE * MAGNESIUM DISTEARATE * MAGNESIUM DISTEARATE * DIBASIC MAGNESI	POLYVINYLPYRROLIDONE	HOMOPOLYMER * POLY(N-VINYLPYRROLIDONE) *	9003-39-8	0 - 3.0
D-SORBITOL  SORBITOL * L-GULITOL * 50-70-4 0 1,2,3,4,5,6-HEXANEHEXOL * D-SORBOL  POLYVINYLPOLYPYRROLIDONE CROSPOVIDONE * CROSPOVIDONE (KOLLIDON CL-SF) * PVPP * POLY[1-(2-OXO-1-PYRROLIDINYL)-1,2-ET HANEDIYL]  MAGNESIUM STEARATE STEARIC ACID, MAGNESIUM SALT * MAGNESIUM DISTEARATE * DIBASIC MAGNESIUM STEARATE * DIBASIC MAGNESIUM STEARATE, PURE  NIPASEPT SODIUM  BUTYL PARABEN SODIUM  Unassigned  POVIDONE 30  POly(1-ethenylpyrrolid-2-one) * 9003-39-8 0 - CROSPOVIDONE * POLY(1-VINYL-2-PYRROLIDINONE) * 2-PYRROLIDINONE, 1-VINYL-, POLYMERS  TITANIUM DIOXIDE  TITANIUM OXIDE * TITANIUM(IV) OXIDE * 13463-67-7 0 -	ALGINIC ACID		9005-32-7	0 - 2.5
1,2,3,4,5,6-HEXANEHEXOL * D-SORBOL  POLYVINYLPOLYPYRROLIDONE CROSPOVIDONE * CROSPOVIDONE (KOLLIDON CL-SF) * PVPP * POLY[1-(2-OXO-1-PYRROLIDINYL)-1,2-ET HANEDIYL]  MAGNESIUM STEARATE STEARIC ACID, MAGNESIUM SALT * 557-04-0 MAGNESIUM DISTEARATE * DIBASIC MAGNESIUM STEARATE * MAGNESIUM DISTEARATE * MAGNESIUM DISTEARATE, PURE  NIPASEPT SODIUM BUTYL PARABEN SODIUM Unassigned 0  POVIDONE 30 Poly(1-ethenylpyrrolid-2-one) * 9003-39-8 CROSPOVIDONE * POLY(1-VINYL-2-PYRROLIDINONE) * 2-PYRROLIDINONE, 1-VINYL-, POLYMERS  TITANIUM DIOXIDE TITANIUM OXIDE * TITANIUM(IV) OXIDE * 13463-67-7 0	TALC		14807-96-6	0 - 2.5
(KOLLIDON CL-SF) * PVPP * POLY[1-(2-OXO-1-PYRROLIDINYL)-1,2-ET HANEDIYL]  MAGNESIUM STEARATE  STEARIC ACID, MAGNESIUM SALT * MAGNESIUM DISTEARATE * DIBASIC MAGNESIUM STEARATE * MAGNESIUM DISTEARATE, PURE  NIPASEPT SODIUM  BUTYL PARABEN SODIUM  POVIDONE 30  Poly(1-ethenylpyrrolid-2-one) * CROSPOVIDONE * POLY(1-VINYL-2-PYRROLIDINONE) * 2-PYRROLIDINONE, 1-VINYL-, POLYMERS  TITANIUM DIOXIDE  TITANIUM OXIDE * TITANIUM(IV) OXIDE *  1 3463-67-7	D-SORBITOL		50-70-4	0 - < 2
MAGNESIUM DISTEARATE * DIBASIC MAGNESIUM STEARATE * MAGNESIUM DISTEARATE, PURE  NIPASEPT SODIUM  BUTYL PARABEN SODIUM  Unassigned  0  POVIDONE 30  Poly(1-ethenylpyrrolid-2-one) * CROSPOVIDONE * POLY(1-VINYL-2-PYRROLIDINONE) * 2-PYRROLIDINONE, 1-VINYL-, POLYMERS  TITANIUM DIOXIDE  TITANIUM OXIDE * TITANIUM(IV) OXIDE * 13463-67-7 0	POLYVINYLPOLYPYRROLIDONE	(KOLLIDON CL-SF) * PVPP * POLY[1-(2-OXO-1-PYRROLIDINYL)-1,2-ET	25249-54-1	0 - 1.0
POVIDONE 30	MAGNESIUM STEARATE	MAGNESIUM DISTEARATE * DIBASIC MAGNESIUM STEARATE * MAGNESIUM	557-04-0	0 - 0.5
CRÓSPOVIDÓNE * POLY(1-VINYL-2-PYRROLIDINONE) * 2-PYRROLIDINONE, 1-VINYL-, POLYMERS  TITANIUM DIOXIDE TITANIUM (IV) OXIDE * 13463-67-7 0	NIPASEPT SODIUM		Unassigned	0 - 0.2
	POVIDONE 30	CRÓSPOVIDONE * POLY(1-VINYL-2-PYRROLIDINONE) *	9003-39-8	0 - < 0.05
WHITE 6	TITANIUM DIOXIDE	TITANIUM PEROXIDE (TiO2) * PÍGMENT	13463-67-7	0 - 0.03

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

**Inhalation** Move to fresh air. If breathing is difficult, trained personnel should give oxygen. 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 advice from poison control center. If ingestion of a large amount does occur, call a poison

control center immediately.

Most important symptoms/effects, acute and delayed

None known.

Indication of immediate medical attention and special treatment needed

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

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Pre-placement and periodic health surveillance is not usually indicated. The final determination of the need for health surveillance should be determined by local risk assessment.

### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

inguishing None known.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

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

Fire-fighting

Move containers from fire area if you can do so without risk.

equipment/instructions
Specific methods

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

General fire hazards No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

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. Minimize 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. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Minimize 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.

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).

## 8. Exposure controls/personal protection

## Occupational exposure limits

GSK Components	Туре	Value	
ALGINIC ACID (CAS 9005-32-7)	OHC	1	
CITRIC ACID ANHYDROUS (CAS	8 HR TWA	5000 mcg/m3	
77-92-9)	OHC	1	

GSK Components	Туре	Value	
D-SORBITOL (CAS	OHC	1	
50-70-4) MAGNESIUM STEARATE	OHC	1	
(CAS 557-04-0) PARACETAMOL (CAS	8 HR TWA	4000 mcg/m3	
103-90-2)	OHC	1	
SODIUM BICARBONATE (CAS 144-55-8)	8 HR TWA	5000 mcg/m3	
(5.15 11.155 5)	OHC	1	
SODIUM CARBONATE (CAS 497-19-8)	8 HR TWA	5000 mcg/m3	
	OHC	1	
US. OSHA Table Z-1 Limits	for Air Contaminants (29 CFR 1910.1000)		
Components	Туре	Value	Form
CALCIUM CARBONATE (CAS 471-34-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
STARCH (CAS 9005-25-8)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
TITANIUM DIOXIDE (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CF Components	R 1910.1000) Type	Value	Form
-			
TALC (CAS 14807-96-6)	TWA	0.3 mg/m3	Total dust.
		0.1 mg/m3	Respirable.
		20 mppcf	Dessiveble
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Components	t Values Type	Value	Form
MAGNESIUM STEARATE	TWA	10 mg/m3	
(CAS 557-04-0)			
STARCH (CAS 9005-25-8)	TWA	10 mg/m3	
TALC (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	10 mg/m3	
US. NIOSH: Pocket Guide t	o Chemical Hazards		
Components	Туре	Value	Form
CALCIUM CARBONATE (CAS 471-34-1)	TWA	5 mg/m3	Respirable.
,		10 mg/m3	Total
STARCH (CAS 9005-25-8)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
TALC (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.
ogical limit values	No biological exposure limits noted for the	ingredient(s).	
ropriate engineering trols	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.		
vidual protection measures Eye/face protection	, such as personal protective equipment If contact is likely, safety glasses with side	shields are recommended	d.
•			
Hand protection	For prolonged or repeated skin contact use	suitable protective glove	ъ.

Skin protection

Other Wear suitable protective clothing as protection against splashing or contamination.

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels Respiratory protection

exceeding the exposure limits.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

For advice on suitable monitoring methods, seek guidance from a qualified environment, health and safety professional. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### 9. Physical and chemical properties

**Appearance** 

Solid. **Physical state** 

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

range

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

Flammability limit - lower

(%)

Not available.

Not available.

Flammability limit - upper

(%)

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

Solubility(ies)

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

(n-octanol/water)

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

### 10. Stability and reactivity

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

Material is stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

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

with compressed air).

Incompatible materials Acids. 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. Direct contact with eyes may cause

temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

None known.

### Information on toxicological effects

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

Harmful if swallowed.

	Hammar II owallowed.	
Components	Species	Test Results
ALGINIC ACID (CAS 9005	5-32-7)	
Acute		
Oral		
LD50	Rat	> 5000 mg/kg
CALCIUM CARBONATE (	(CAS 471-34-1)	
Acute		
Oral		
LD50	Rat	6450 mg/kg
CITRIC ACID ANHYDROU	US (CAS 77-92-9)	
Acute		
Oral		
LD50	Rat	3000 mg/kg
D-SORBITOL (CAS 50-70	0-4)	
Acute		
Oral		
LD50	Rat	15.9 g/kg
MAGNESIUM STEARATE	E (CAS 557-04-0)	
Acute		
Oral		
LD50	Rat	> 2000 mg/kg
NIPASEPT SODIUM (CAS	S Unassigned)	
Acute		
Oral	D /	
LD50	Rat	< 2000 mg/kg
PARACETAMOL (CAS 10	03-90-2)	
Acute		
Oral	D-4	4044
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

Material name: PANADOL (PARACETAMOL) TABLETS / CAPLETS

SDS US

Components	Species	Test Results
Other		
LOAEL	Mouse	130 ppm, 61 weeks dietary, continuous
NOAEL	Mouse	3200 ppm, 13 weeks dietary, continuous
		0.3 %, 41 weeks dietary, continuous
TD	Mouse	6100 ppm, 13 weeks dietary, continuous
		1.25 %, 41 weeks dietary, continuous
POLYVINYLPYRROLIDON	E (CAS 9003-39-8)	
Acute		
Oral		
LD50	Rat	> 5000 mg/kg
POVIDONE 30 (CAS 9003-	39-8)	
Acute		
Oral		
LD50	Rat	> 5000 mg/kg
SODIUM BICARBONATE (	CAS 144-55-8)	3 3
Acute	<i>5.</i> 16 111 55 5)	
Oral		
LD50	Rat	4220 mg/kg
FITANIUM DIOXIDE (CAS		in the state of th
Acute	13403-01-1)	
Inhalation		
LC50	Rat	6820 mcg/m3
	Nat	0020 mcg/mo
Oral LD50	Det	> 24 alka
LD50	Rat	> 24 g/kg
Chronic		
Inhalation	<b>D</b> 4	7.00 LLL
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
0.21		significant inflammation in respiratory trac
<i>Oral</i> NOAEL	Pot	100000 nom 14 Day Diatany atrialy high-
NOAEL	Rat	100000 ppm, 14 Day Dietary study, highedose tested.
Subchronic		
Inhalation		
LOEC	Rat	3.2 - 20 mg/m3, 8 min Accumulation of TiO2 in macrophages and evidence of pulmonary inflammation.

<sup>\*</sup> 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 (

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

CITRIC ACID ANHYDROUS Acute ocular irritation; OECD 405

Result: Severe Irritant Species: Rabbit

PARACETAMOL OECD 405

Result: Slight irritant

Species: Rabbit

OECD 405, Literature data Result: Mild irritant

Species: Rabbit

Eye / Initial pain reaction score

TITANIUM DIOXIDE

PARACETAMOL Literature data

Eye / Kay and Calandra class - Intact

MAGNESIUM STEARATE

Recovery Period: 2 days

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

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

Sensitization

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

TITANIUM DIOXIDE

PARACETAMOL Ames, Literature data

Result: Negative 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

Mutagenicity

TITANIUM DIOXIDE 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

7.2 - 14.8 mg/m3. Literature data

Result: Lung tumour

Species: Rat

Test Duration: 24 months

Literature data

Result: Equivocal. Increase in ademomas at toxic dose.

Species: Mouse Literature data

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

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

IARC Monographs. Overall Evaluation of Carcinogenicity

PARACETAMOL (CAS 103-90-2)

POLYVINYLPYRROLIDONE (CAS 9003-39-8)

POVIDONE 30 (CAS 9003-39-8)

TITANIUM DIOXIDE (CAS 13463-67-7)

TALC (CAS 14807-96-6)

3 Not classifiable as to carcinogenicity to humans.

3 Not classifiable as to carcinogenicity to humans.

3 Not classifiable as to carcinogenicity to humans.

2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**PARACETAMOL** 

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

Reproductivity

PARACETAMOL 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

Epidemiology, Literature data

Result: No clear association with therapeutic use.

Species: Human

Specific target organ toxicity -

**PARACETAMOL** 

single exposure

Causes damage to organs by ingestion.

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.

**Chronic effects** Prolonged exposure may cause chronic effects.

Further information Caution - Pharmaceutical agent. Symptoms may be delayed.

## 12. Ecological information

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

Components		Species	Test Results
CALCIUM CARBONA	TE (CAS 471-34-1)		
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	) > 56000 mg/l, 24 hours
CITRIC ACID ANHYD	ROUS (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
MAGNESIUM STEAR	ATE (CAS 557-04-0	0)	
Aquatic			
Acute			
Fish	EC50	Orange-red killfish (Adult Oryzias latipes)	130 mg/l, 96 hours
PARACETAMOL (CAS	S 103-90-2)		
Aquatic			
Acute			
Algae	EC50	Green algae (Scenedesmus subspicatus)	134 mg/l, 72 hours
Crustacea	EC50	Water flea (Daphnia magna)	50 mg/l, 48 hours Static test
Fish	EC50	Fathead minnow (Juvenile Pimephales promelas)	814 mg/l, 96 hours Flow-through test
POLYVINYLPOLYPYF	RROLIDONE (CAS	25249-54-1)	
Acute	`		
	IC50	Activated sludge	> 1000 mg/l, 3 hours Static test
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	84 mg/l, 48 hours Static test

Material name: PANADOL (PARACETAMOL) TABLETS / CAPLETS

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Components		Species	Test Results
	NOEC	Water flea (Daphnia magna)	32 mg/l, 48 hours Static test
POLYVINYLPYRROLID	ONE (CAS 9003-	39-8)	
Acute			
	IC50	Activated sludge	> 1000 mg/l, 3 hours Static test
Aquatic			
Acute			
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 90	003-39-8)		
Acute			
	IC50	Activated sludge	> 1000 mg/l, 3 hours Static test
Aquatic			
Acute			
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 BICARBONAT	TE (CAS 144-55-8)		
Aquatic			
Acute	F050	Almas (Nitasharia linashia)	050 mg/l 5 days
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			
Acute			
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
		Fathead minnow (Juvenile Pimephales promelas)	< 850 mg/l, 96 hours Static test
		Mosquito fish (Adult Gambusia affinis)	740 mg/l, 96 hours Static test
TALC (CAS 14807-96-6	5)		
Aquatic	•		
Acute			
Fish	EC50	Zebra fish (Adult Brachydanio rerio)	> 100 g/l, 24 hours Static renewal test
TITANIUM DIOXIDE (C	AS 13463-67-7)		
Aquatic			
Aquatic Acute			

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

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 POLYVINYLPOLYPYRROLIDONE 0 %, 28 days Modified MITI test, Activated sludge POLYVINYLPYRROLIDONE 0 %, 28 days Modified MITI test, Activated sludge

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

Percent degradation (Aerobic biodegradation-soil)

MAGNESIUM STEARATE 50 %, 13 days

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

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 m^3/mol Calculated, 25 °C

D-SORBITOL 0 atm m^3/mol Estimated PARACETAMOL 0 atm m^3/mol Estimated

Other adverse effects Not available.

### 13. Disposal considerations

**Disposal instructions**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.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code**The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

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

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

emptied.

### 14. Transport information

DOT

Not regulated as a dangerous good.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

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

### 15. Regulatory information

**US federal regulations**One or more components are not listed on TSCA.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

## CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

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

## SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

#### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US state regulations**

## US. Massachusetts RTK - Substance List

CALCIUM CARBONATE (CAS 471-34-1)

STARCH (CAS 9005-25-8) TALC (CAS 14807-96-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

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

CALCIUM CARBONATE (CAS 471-34-1)

TALC (CAS 14807-96-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

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

CALCIUM CARBONATE (CAS 471-34-1)

STARCH (CAS 9005-25-8) TALC (CAS 14807-96-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

#### **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.

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

TITANIUM DIOXIDE (CAS 13463-67-7) Listed: September 2, 2011

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No

Country(s) or region Inventory name On inventory (yes/no)\* Europe European List of Notified Chemical Substances (ELINCS) Inventory of Existing and New Chemical Substances (ENCS) Japan Nο Korea Existing Chemicals List (ECL) No New Zealand New Zealand Inventory No **Philippines** Philippine Inventory of Chemicals and Chemical Substances No (PICCS)

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

 Issue date
 08-21-2014

 Revision date
 08-21-2014

Version # 14

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

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

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

HMIS® ratings Health: 2\*

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 1 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: Synonyms

Composition / Information on Ingredients: Undisclosed Ingredient Statement

Fire-fighting measures: General fire hazards

Exposure controls/personal protection: Appropriate engineering controls

Toxicological information: Further information

Ecological information: Ecotoxicity

Ecological information: Bioaccumulative potential Ecological information: Other adverse effects

SDS US

No

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

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

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).