

# SAFETY DATA SHEET

1. Identification	
Product identifier	ZANTAC TABLETS
Other means of identification	
Synonyms	ZANTAC 150 TABLETS * ZANTAC 300 TABLETS * ANTAK TABLETS * AZANTAC TABLETS * SOSTRIL TABLETS * ZANDINE TABLETS * ZANTIC TABLETS * ZINETAC TABLETS * RANITIDINE HYDROCHLORIDE, 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/Suppli	er/Distributor information
Manufacturer	
	GlaxoSmithKline US 5 Moore Drive Research Triangle Park, NC 27709 USA US General Information (normal business hours); +1-888-825-5249

msds@gsk.com

+1 703 527 3887

www.gsk.com

available 24 hrs/7 days; multi-language response

EMERGENCY PHONE NUMBERS -TRANSPORT EMERGENCIES:: US / International toll call

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

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

Email Address:

Website:

## Hazard(s) not otherwise classified (HNOC)

2. Hazard(s) identification

**Classified hazards** 

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	%
RANITIDINE HYDROCHLORIDE	AH 19065AB * N,N-DIMETHYL-5-(2-(1-METHYLAMINO-2-N ITROVINYLAMINO)ET HYLTHIOMETHYL)FURFURYL AMINE HYDROCHLORIDE * 54 (GW ACN)	66357-59-3	50 - < 60
MICROCRYSTALLINE CELLULOSE	AVICEL PH MICROCRYSTALLINE CELLULOSE * ALPHA-CELLULOSE * AVICEL PH101 * AVICEL PH102 * AVICEL PH103 * AVICEL PH105 * AVICEL PH112 * AVICEL PH200 * CELLULOSE (8CI9CI) * CELLULOSE CRYSTALLINE * CELLULOSE, FOOD GRADE * CRYSTALLINE CELLULOSE	9004-34-6	15 - < 45

Chemical name	Common name and synonyms	CAS number	%
MAGNESIUM STEARATE	STEARIC ACID, MAGNESIUM SALT * MAGNESIUM DISTEARATE * DIBASIC MAGNESIUM STEARATE * MAGNESIUM DISTEARATE, PURE	557-04-0	0.1 - < 5
TITANIUM DIOXIDE	TITANIUM OXIDE * TITANIUM(IV) OXIDE * TITANIUM PEROXIDE (TiO2) * PIGMENT WHITE 6	13463-67-7	<5
011			40 00

Other components below reportable levels

10 - < 20

\*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. Call a physician if symptoms develop or persist.
Skin contact	Immediately flush skin with plenty of water. Take off contaminated clothing and wash before reuse. Get medical attention if symptoms occur.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
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	Accidental exposure or contact might produce: Irritation of eyes and mucous membranes. Sensitization. Skin irritation. May cause an allergic skin reaction. Dermatitis. Rash. The following adverse effects have been noted with therapeutic use of this material: decrease in heart rate; decrease in blood pressure; temporary decrease in white blood cell counts; coughing; increased mucous secretion.
Indication of immediate medical attention and special treatment needed	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	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.
5. Fire-fighting measures	
Suitable extinguishing media	Water. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	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 equipment/instructions	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.
General fire hazards	No unusual fire or explosion hazards noted.
6. Accidental release meas	sures
Personal precautions,	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear

protective equipment and emergency procedures	protective clothing and equipment consistent with the degree of hazard. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Collect and place it in a suitable, properly labelled container for recovery or disposal. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. No specific decontamination or detoxification procedures have been identified for this product.
Environmental precautions	For large spills, take precautions to prevent entry into waterways, sewers, or surface drainage systems.

## 7. Handling and storage

Precautions for safe handling	Avoid prolonged exposure.	Avoid breaking or crushing tablets.
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Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). No storage requirements necessary for occupational hazards. Follow product information storage instructions to maintain efficacy.

## 8. Exposure controls/personal protection

## **Occupational exposure limits**

GSK Components	Туре	Value	Note
RANITIDINE HYDROCHLORIDE (CAS 66357-59-3)	15 MIN STEL	50 mcg/m3	SKIN SENSITISER
		50 mcg/m3	RESPIRATORY
	OHC	3	
US. OSHA Table Z-1 Limits	for Air Contaminants (29 CFR 1910.1000	)) Mahara	Form
Components	гуре	value	FOIII
MICROCRYSTALLINE CELLULOSE (CAS 9004-34-6)	PEL	5 mg/m3	Respirable fraction.
TITANIUM DIOXIDE (CAS 13463-67-7)	PEL	15 mg/m3 15 mg/m3	l otal dust. Total dust.
US. ACGIH Threshold Limit	Values		
Components	Туре	Value	
MAGNESIUM STEARATE (CAS 557-04-0)	TWA	10 mg/m3	
MICROCRYSTALLINE CELLULOSE (CAS 9004-34-6)	TWA	10 mg/m3	
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	10 mg/m3	
US. NIOSH: Pocket Guide to	o Chemical Hazards		<b>F</b>
Components	Туре	Value	Form
MICROCRYSTALLINE CELLULOSE (CAS 9004-34-6)	TWA	5 mg/m3	Respirable.
	No biological expension limits poted for th	10 mg/m3	Total
	No biological exposure limits noted for th	ie ingredient(s).	
ppropriate engineering pntrols	General ventilation normally adequate.		
dividual protection measures	, such as personal protective equipment	t	
Eye/face protection	If contact is likely, safety glasses with sic recommended.	de shields are recommende	d. Eye wash fountain is
Skin protection			
Hand protection	Not normally needed. For prolonged or re	epeated skin contact use su	itable protective gloves.
Other	Wear suitable protective clothing as protective	ection against splashing or	contamination.
Respiratory protection	No personal respiratory protective equipulation concentrations above the exposure limit NIOSH/MSHA approved respirator if the the exposure limits.	ment normally required. Wh they must use appropriate of re is a risk of exposure to do	en workers are facing certified respirators. Use a ust/fume at levels exceeding
Thermal hazards	Wear appropriate thermal protective clot	hing, when necessary.	
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## 9. Physical and chemical properties

#### Appearance

Physical state	Solid.
Form	Tablet.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	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 exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	This product is expected to be stable.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Fluorine.
Hazardous decomposition products	None known. Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

## 11. Toxicological information

## Information on likely routes of exposure

Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Prolonged inhalation may be harmful.
Skin contact	Health injuries are not known or expected under normal use.
Eye contact	Health injuries are not known or expected under normal use.
Ingestion	Health injuries are not known or expected under normal use. Expected to be a low ingestion hazard. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms related to the physical, chemical and toxicological characteristics	Accidental exposure or contact might produce: Irritation of eyes and mucous membranes. Sensitization. Skin irritation. Dermatitis. May cause an allergic skin reaction. Rash. The following adverse effects have been noted with therapeutic use of this material: decrease in heart rate; decrease in blood pressure; temporary decrease in white blood cell counts; coughing; increased mucous secretion.

## Information on toxicological effects

Acute toxicity	May be harmful if swallowed.	
Components	Species	Test Results
MAGNESIUM STEARATE	(CAS 557-04-0)	
Acute		
Oral		
LD50	Rat	> 2000 mg/kg
MICROCRYSTALLINE CE	LLULOSE (CAS 9004-34-6)	
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	> 2000 mg/kg
RANITIDINE HYDROCHLO	DRIDE (CAS 66357-59-3)	
Acute		
Oral		
LD50	Rat	> 1000 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
		macrophrages in lymphoid tissue.
NOAEC	Rat	250 mg/m3, 2 years Highest dose
		5 mg/m3, 24 months
Cubacuta		o mg/mo, 24 months
Subacule		
	Rat	0.1 - 35 mg/m3. 4 weeks Mild macrophage
LOLL	Nat	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	Det	
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
 0, Literature data

 TITANIUM DIOXIDE
 0, Literature data

 Result: Non-irritant
 Species: Guinea pig

 0, Literature data
 Result: Non-irritant

 Species: Human
 Species: Human

Irritation Corrosion - Skin
TITANIUM DIOXIDE

#### RANITIDINE HYDROCHLORIDE

Acute dermal irritation; OECD 404, Literature data Result: Non-irritant Species: Rabbit Acute dermal irritation; OECD 404, Primary dermal irritation index = 0Result: Negative Species: Rabbit

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

MAGNESIUM STEARATE

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Eye RANITIDINE HYDROCHLORIDE Acute ocular irritation; OECD 405, Kay and Calandra score = 3 **Result: Minimal Irritant** Species: Rabbit **IRE** Assav Result: Negative; not likely to be a severe irritant Species: Rabbit OECD 405, Literature data TITANIUM DIOXIDE Result: Mild irritant Species: Rabbit Eye / Kay and Calandra class - Intact MAGNESIUM STEARATE 4 Recovery Period: 2 days Respiratory or skin sensitization **Respiratory sensitization** May cause allergy or asthma symptoms or breathing difficulties if inhaled. RANITIDINE HYDROCHLORIDE Occupational exposure Result: Positive Species: Human Skin sensitization May cause an allergic skin reaction. Sensitization TITANIUM DIOXIDE 5 % Optimisation Test, Literature data - Vehicle: petrolatum Result: Negative Species: Guinea pig Test Duration: 48 hour exposure RANITIDINE HYDROCHLORIDE Occupational exposure Result: Positive Species: Human **Optimisation Test** Result: Weak sensitiser Species: Guinea pig Patch test, Literature data TITANIUM DIOXIDE 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 RANITIDINE HYDROCHLORIDE Ames Assay, GLP assay Result: Negative Ames, Literature data TITANIUM DIOXIDE Result: Negative RANITIDINE HYDROCHLORIDE Chromosomal Aberration Assay In Vitro, human lymphocytes, Ranitidine bismuth citrate tested Result: Positive Chromosomal Aberration Assay In Vivo; germ cells, Maximum dose = 1000 mg/kg Result: Negative Species: Mouse GreenScreen Assav Result: Negative Micronucleus Assay in vitro, CHO cells, Literature data

Result: Negative

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#### TITANIUM DIOXIDE

#### **Mutagenicity** TITANIUM DIOXIDE Micronucleus Assay in vitro, cultured human peripheral lymphocytes, Literature data Result: Positive RANITIDINE HYDROCHLORIDE Micronucleus Test Result: Negative Species: Rat Mouse Lymphoma Cell (L5178Y) Mutation Assay, GLP assay Result: Negative SOS/umu Assav Result: Negative TITANIUM DIOXIDE Syrian Hamster Embryo (SHE) cell transformation assay **Result: Negative** RANITIDINE HYDROCHLORIDE Unscheduled DNA Synthesis in vivo, Maximum dose = 200 mg/kg Result: Negative Species: Rat Organ: Stomach WIL2-NS HPRT/ t-Thioguanidine - Human B-Cell TITANIUM DIOXIDE lymphoblastoid, Literature data Result: Positive Yeast Mutation Assay RANITIDINE HYDROCHLORIDE **Result: Negative** Carcinogenicity Carcinogenic effects are not expected as a result of occupational exposure. 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 RANITIDINE HYDROCHLORIDE 2 year bioassay, Maximum dose = 2000 mg/kg/day **Result: Negative** Species: Mouse 2 year bioassay, Maximum dose = 2000 mg/kg/day **Result: Negative** Species: Rat TITANIUM DIOXIDE 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 IARC Monographs. Overall Evaluation of Carcinogenicity TITANIUM DIOXIDE (CAS 13463-67-7) 2B Possibly carcinogenic to humans. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. **Reproductive toxicity** Contains no ingredient listed as toxic to reproduction Reproductivity RANITIDINE HYDROCHLORIDE Embryo-foetal development - Oral Result: Foetal NOAEL = 100 mg/kg/day (maximum dose); Maternal NOAEL = 25 mg/kg/day (decreased weight gain at 50 and 100 mg/kg/day) Species: Rat Embryo-foetal development - Oral Result: NOAEL = 100 mg/kg/day (maximum dose)

Species: Rabbit

Reproductivity RANITIDINE HYDROCHLORIDE		Fertility Result: NOAEL / fertility = 100 mg/kg/day (male) and 200 mg/kg/day (female) (maximum doses) Species: Rat
Specific target organ toxicity - single exposure	None known.	
Specific target organ toxicity - repeated exposure	None known.	
Aspiration hazard	Not available.	
Chronic effects	Prolonged inhalation may be ha	armful. Prolonged exposure may cause chronic effects.
Further information	Occupational exposure to the s	ubstance or mixture may cause adverse effects.

## 12. Ecological information

Ecotoxicity

No information is available about the potential of this product to produce adverse environmental effects. The product contains a substance which may cause long-term adverse effects in the environment.

Components		Species	Test Results	
MAGNESIUM STEARAT	E (CAS 557-04-0	))		
Aquatic				
Acute				
Fish	EC50	Orange-red killfish (Adult Oryzias latipes)	130 mg/l, 96 hours	
RANITIDINE HYDROCHI	ORIDE (CAS 6	6357-59-3)		
Aquatic				
Acute				
Activated Sludge Respiration	IC50	Residential sludge	> 1000 mg/l, 3 hours OECD 209	
Algae	EC50	Green algae (Selenastrum capricornutum)	167 mg/l, 72 hours OECD 201	
	NOEC	Green algae (Selenastrum capricornutum)	56 mg/l, 72 hours	
Crustacea	EC50	Water flea (Daphnia magna)	730 mg/l, 48 hours Static test, OECD 202	
	NOEC	Water flea (Daphnia magna)	347 mg/l, 48 hours Static test	
Fish	EC50	Rainbow trout (Juvenile Oncorhyncus mykiss)	> 112 mg/l, 14 days Flow-through tes OECD 203	
	NOEC	Rainbow trout (Juvenile Oncorhyncus mykiss)	112 mg/l, 14 days Flow-through test	
Chronic				
Crustacea	LOEC	Water flea (Ceriodaphnia dubia)	100 mg/l, 8 days Static renewal test, EPA 1002	
	NOEC	Water flea (Ceriodaphnia dubia)	32 mg/l, 8 days	
TITANIUM DIOXIDE (CA	S 13463-67-7)			
Aquatic	,			
Acute				
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours Static test	
* Estimates for product m	av be based on a	additional component data not shown.		
sistence and degradabili	ty	•		
Photolysis				
	-aqueous)	70 Minutes Measured	l ake water	
		70 IVIITULES IVIEASULEU, LAKE WALEI		

17 Hours Estimated

Half-life (Photolysis-atmospheric)
MAGNESIUM STEARATE

Photolysis		
UV/visible spectrum wa	velength	
MAGNESIUM STEARATE		210 nm
RANITIDINE HYDROCHLORIDE		313 nm Measured, pH 7
Hydrolysis		
Half-life (Hydrolysis-neu	ıtral)	
RANITIDINE HYDROCHI	ORIDE	> 1 Years Measured
Biodegradability		
	Fronce biodegradation-inner	
		77 %, 28 days BOD 2 % 28 days Modified Zahn Wellens, DOC removal
		Activated sludge
		43 %, 28 days Modified Zahn-Wellens, primary
		biodegradation, loss of parent., Activated sludge
Percent degradation (Ae	erobic biodegradation-soil)	
		50 %, 13 days
RANITIDINE HYDROCH	-ORIDE	3 - 10 %, 67 days
		12 % 35 days
Bioaccumulative potential		12 /0, 00 dayo
Partition coefficient n-octanol / water (log Kow)		0.0915
Bioconcentration factor (BC	E)	0.0015
MAGNESIUM STEARATE		> 9999 Estimated
Mobility in soil		
Adsorption		
Soil/sediment sorption -	· log Koc	
MAGNESIUM STEARATI	Ē	5.86 Estimated
RANITIDINE HYDROCHI	ORIDE	2.51 - 4.49, pH 5-7
Mobility in general		
Volatility		
Henry's law		
RANITIDINE HYDROCHI	_ORIDE	0 atm m <sup>^</sup> 3/mol, 24 C Estimated
Distribution		
Octanol/water distributi	on coefficient log DOW	
RANITIDINE HYDROCHI	ORIDE	-1.09, pH 7
		-2.5, pH 5
<b>•</b>	NI-C	0.14, μπ 9
Other adverse effects	Not available.	
13. Disposal consideration	ıs	
Disposal instructions	Collect and reclaim or dispose	se in sealed containers at licensed waste disposal site. Do not
	discharge into drains, water	courses or onto the ground. Dispose in accordance with all applicable
	regulations.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused	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	
products	Disposal instructions). Avoid	discharge into water courses or onto the ground.
Contaminated packaging	Empty containers should be Since emptied containers ma emptied.	taken to an approved waste handling site for recycling or disposal. ay retain product residue, follow label warnings even after container is
14. Transport information		

Not regulated as a dangerous good.

## IATA

Not regulated as dangerous goods.

## IMDG

Not regulated as dangerous goods.

Transport in bulk according to<br/>Annex II of MARPOL 73/78 and<br/>the IBC CodeMARPOL Annex II applies to liquids used in a ship's operation that pose a threat to the marine<br/>environment. These materials may not be transported in bulk.

## 15. Regulatory information

## **US federal regulations**

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

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

The information included below is an overview of the major regulatory requirements. It should not be considered to be an exhaustive summary. Local regulations should be consulted for additional requirements.

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

## US. Massachusetts RTK - Substance List

MICROCRYSTALLINE CELLULOSE (CAS 9004-34-6) TITANIUM DIOXIDE (CAS 13463-67-7)

US. New Jersey Worker and Community Right-to-Know Act MICROCRYSTALLINE CELLULOSE (CAS 9004-34-6) TITANIUM DIOXIDE (CAS 13463-67-7)

## US. Pennsylvania Worker and Community Right-to-Know Law MICROCRYSTALLINE CELLULOSE (CAS 9004-34-6) 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
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
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date	11-07-2014
Revision date	11-07-2014
Version #	12
Further information	This material has not been assessed for HMIS or NFPA ratings.
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	This document has undergone significant changes and should be reviewed in its entirety.