



SAFETY DATA SHEET

1. Identification

Product identifier

TUMS TABLETS

Other means of identification

Synonyms

MFC50899 TUMS FRESHERS COOLMINT AND PLACEBO * CALCIUM CARBONATE, FORMULATED PRODUCT * MFC 51081 TUMS FRESHERS SPEARMINT * MFC 51126A TUMS REGULAR PEPPERMINT 500MG * MFC 51126B TUMS EXTRA PEPPERMINT 750MG * MFC 51126C TUMS ULTRA PEPPERMINT 1000MG * MFC 51127A TUMS REGULAR CHERRY 500MG * MFC 51127B TUMS EXTRA CHERRY 750MG * MFC 51127C TUMS ULTRA CHERRY 1000MG * MFC 51128A TUMS REGULAR ORANGE 500MG * MFC 51128B TUMS EXTRA ORANGE 750MG * MFC 51128C TUMS ULTRA ORANGE 1000MG * MFC 51129A TUMS REGULAR LEMON 500MG * MFC 51129B TUMS EXTRA LEMON 750MG * MFC 51129C TUMS ULTRA LEMON 1000MG * MFC 51130A TUMS REGULAR LIME 500MG * MFC 51130B TUMS EXTRA LIME 750MG * MFC 51130C TUMS ULTRA LIME 1000MG * ANDREWS TUMS ANTACID MIXED FRUIT FLAVOURED TABLETS * ACD-128 ANDREWS ANTACID REFRESHING (UK) * TUMS ASSORTED FRUIT (UK) * TUMS ASSORTED FRUIT ANTACID TABLETS 500MG * ANDREWS ANTACID FRUIT (UK) * CALCIUM CARBONATE 600MG AND MAGNESIUM CARBONATE 125MG TABLETS * FORMULA NUMBERS: 3001111-0017, 3001111-0018, 3001111-0019 AND 3001111-0020 TUMS ULTRA ASSORTED FRUIT (US) * FORMULA NUMBERS: 3001111-0017, 3001111-0018, 3001111-0019 AND 3001111-0020 TUMS ULTRA STRENGTH ASSORTED FRUIT (CANADA) * FORMULA NUMBERS: 3001111-0023, 3001111-0024, 3001111-0025 AND 3001111-0026 TUMS ULTRA ASSORTED TROPICAL (US AND CANADA) * FORMULA NUMBERS: 3001109-0018, 3001109-0019, 3001109-0020 AND 3001109-0021 TUMS EXTRA STRENGTH TROPICAL FRUIT * FORMULA NUMBERS: 3001109-0018, 3001109-0019, 3001109-0020 AND 3001109-0021 TUMS TROPICAL FRUIT 750MG * FORMULA NUMBERS: 3001101-0047, 3001101-0048, 3001101-0049 AND 3001101-0050 TUMS ASSORTED FRUIT * FORMULA NUMBERS: 3001101-0047, 3001101-0048, 3001101-0049 AND 3001101-0050 TUMS REGULAR STRENGTH ASSORTED FRUIT (CANADA AND COLUMBIA) * FORMULA NUMBERS: 10499-001-0006, 10499-001-0007 AND 10499-001-0008 TUMS EXTRA STRENGTH ASSORTED BERRIES * FORMULA NUMBERS: 3001111-0036, 3001111-0037 AND 3001111-0038 TUMS ULTRA ASSORTED BERRIES (US AND CANADA) * FORMULA NUMBER: 3001109-0021 TUMS EX BANANA BERRY * FORMULA NUMBER: 3001104-0043 ANDREWS TUMS ORANGE TABLETS * MFC 3001101-0048 ENO TUMS ORANGE * FORMULA NUMBERS: 3001101-0047 AND 3001101-0048 ENO TUMS ASSORTED FRUIT

Recommended use of the chemical and restrictions on use

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.

Restrictions on use

No other uses are advised.

Details of manufacturer or importer

Manufacturer

GlaxoSmithKline Australia
1061 Mountain Highway
Melbourne, Victoria 3155
Australia
Australia General Information (Normal Business Hours): (03) 9721 6000

TRANSPORTATION EMERGENCY NUMBERS
(available 24hrs/7days: multi-language response)
Australia Toll Free +(61) 2 9037 2994
International Toll Call +(1) 703 527 3887

2. Hazard(s) identification

Classification of the hazardous chemical

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

Label elements, including precautionary statements

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

Other hazards which do not result in classification

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

3. Composition/information on ingredients

Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
D-SORBITOL Sorbitol L-GULITOL 1,2,3,4,5,6-HEXANEHEXOL D-SORBOL	50-70-4	0 - 83
Calcium carbonate CARBONIC ACID, CALCIUM SALT CALCIUM MONOCARBONATE PRECIPITATED CALCIUM CARBONATE CHALK	471-34-1	0 - 75
Talc TALCUM, NON-ASBESTOS FORM Talc HYDROUS MAGNESIUM SILICATE	14807-96-6	0 - <12
MAGNESIUM CARBONATE CARBONIC ACID, MAGNESIUM SALT CARBONATE MAGNESIUM	546-93-0	0 - < 9
Malic acid HYDROXYSUCCINIC ACID HYROXYBUTANEDIOIC ACID	6915-15-7	0 - < 6
Starch ARROWROOT STARCH CORN STARCH POTATO STARCH RICE STARCH	9005-25-8	0 - 6
CALCIUM STEARATE CALCIUM DISTEARATE	1592-23-0	0 -3.5
Other components below reportable levels		25 - 60

4. First-aid measures

Description of necessary first aid measures

Inhalation	In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is difficult, trained personnel should give oxygen. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
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).
Personal protection for first-aid responders	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.
Symptoms caused by exposure	Irritant effects.

Medical attention and special treatment No specific antidotes are recommended. Treat according to locally accepted protocols. For additional guidance, refer to the local poison control information centre.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Alcohol resistant foam. Water spray. Water fog. 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 fire fighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions Use water spray to cool unopened containers.

Hazchem Code Not available.

General fire hazards Expected to be non-combustible.

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

6. Accidental release measures

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. 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.

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

Methods and materials for containment and cleaning up 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.

7. Handling and storage

Precautions for safe handling Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls and personal protection

Control parameters Follow standard monitoring procedures.

Occupational exposure limits

GSK
Not established

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value	Form
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m ³	Inhalable dust.
CALCIUM STEARATE (CAS 1592-23-0)	TWA	10 mg/m ³	Inhalable dust.
MAGNESIUM CARBONATE (CAS 546-93-0)	TWA	10 mg/m ³	Inhalable dust.
Starch (CAS 9005-25-8)	TWA	10 mg/m ³	Inhalable dust.
Talc (CAS 14807-96-6)	TWA	2.5 mg/m ³	

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value	Form
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	Inspirable dust.
CALCIUM STEARATE (CAS 1592-23-0)	TWA	10 mg/m3	Inspirable dust.
MAGNESIUM CARBONATE (CAS 546-93-0)	TWA	10 mg/m3	Inspirable dust.
Starch (CAS 9005-25-8)	TWA	10 mg/m3	Inspirable dust.
Talc (CAS 14807-96-6)	TWA	2.5 mg/m3	

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
CALCIUM STEARATE (CAS 1592-23-0)	TWA	10 mg/m3	
Starch (CAS 9005-25-8)	TWA	10 mg/m3	
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Calcium carbonate (CAS 471-34-1)	TWA	4 mg/m3	Respirable dust.
		4 mg/m3	Respirable.
		10 mg/m3	Inhalable dust.
		10 mg/m3	Inhalable
MAGNESIUM CARBONATE (CAS 546-93-0)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
Starch (CAS 9005-25-8)	TWA	4 mg/m3	Respirable.
		10 mg/m3	Inhalable
Talc (CAS 14807-96-6)	TWA	1 mg/m3	Respirable dust.

Biological limit values

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

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, for example personal protective equipment (PPE)

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

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

Physical state

Solid.

Form

Tablet.

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.
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	Not available.
Vapour 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.

Other physical and chemical parameters

Dust explosion properties

St class	No studies have been conducted.
Minimum Ignition Energy (MIE) - dust cloud	No studies have been conducted.

Train fire	No studies have been conducted.
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10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Acids. Fluorine.
Hazardous decomposition products	None known. Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

11. Toxicological information

Information on possible routes of exposure

Inhalation	Health injuries are not known or expected under normal use. Inhalation of dusts may cause respiratory irritation.
Skin contact	Health injuries are not known or expected under normal use. Dust or powder may irritate the skin.
Eye contact	Health injuries are not known or expected under normal use. Dust or powder may irritate eye tissue.
Ingestion	Health injuries are not known or expected under normal use.

Symptoms related to exposure	Irritant effects.
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Acute toxicity	Health injuries are not known or expected under normal use.
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Components	Species	Test results
Calcium carbonate (CAS 471-34-1)		
Acute		
<i>Oral</i>		
LD50	Rat	6450 mg/kg
CALCIUM STEARATE (CAS 1592-23-0)		
Acute		
<i>Oral</i>		
LD50	Rat	> 2000 mg/kg
D-SORBITOL (CAS 50-70-4)		
Acute		
<i>Oral</i>		
LD50	Rat	15.9 g/kg

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

Skin corrosion/irritation	Health injuries are not known or expected under normal use. Prolonged skin contact may cause temporary irritation.
Serious eye damage/irritation	Health injuries are not known or expected under normal use. Dust or powder may irritate eye tissue.
Respiratory or skin sensitisation	
Respiratory sensitisation	Not applicable.
Skin sensitisation	Health injuries are not known or expected under normal use.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Health injuries are not known or expected under normal use. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Contains a material (talc) classified as a carcinogen by external agencies. These effects are suspected to be due to impurities that are not expected to be present in purified material used in this product.
ACGIH Carcinogens	
CALCIUM STEARATE (CAS 1592-23-0)	A4 Not classifiable as a human carcinogen.
Starch (CAS 9005-25-8)	A4 Not classifiable as a human carcinogen.
Talc (CAS 14807-96-6)	A4 Not classifiable as a human carcinogen.
Reproductive toxicity	Health injuries are not known or expected under normal use. Contains no ingredient listed as toxic to reproduction
Specific target organ toxicity - single exposure	None known.
Specific target organ toxicity - repeated exposure	None known.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
Other information	Not available.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
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Components	Species	Test results
Calcium carbonate (CAS 471-34-1)		
Aquatic		
Fish	LC50	Western mosquitofish (<i>Gambusia affinis</i>) > 56000 mg/l, 24 hours
CALCIUM STEARATE (CAS 1592-23-0)		
Aquatic		
<i>Acute</i>		
Fish	EC50	Orange-red killfish (Adult <i>Oryzias latipes</i>) 266 mg/l, 96 hours
Microtox	EC50	Microtox 25.6 mg/l, 15 minutes

Components	Species	Test results
Talc (CAS 14807-96-6)		
Aquatic		
<i>Acute</i>		
Fish	EC50	Zebra fish (Adult Brachydanio rerio)
		> 100 g/l, 24 hours Static renewal test

* 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-aqueous)

Malic acid 940 Days Estimated

Half-life (Photolysis-atmospheric)

CALCIUM STEARATE 17 Hours Estimated

Malic acid 2 Days Estimated

Biodegradability

Percent degradation (Aerobic biodegradation-inherent)

CALCIUM STEARATE 77 %, 28 days BOD

Malic acid 68 %, 5 days BOD5, Activated sludge

Percent degradation (Aerobic biodegradation-ready)

CALCIUM STEARATE 95 %, 22 days Modified Sturm test.

Percent degradation (Aerobic biodegradation-soil)

CALCIUM STEARATE > 50 %, 13 days

Bioaccumulative potential

Partition coefficient

n-octanol / water (log Kow)

D-SORBITOL -2.2

Bioconcentration factor

(BCF)

CALCIUM STEARATE > 1000 Estimated

D-SORBITOL 1 Estimated

Malic acid 0.1 - 0.3 Estimated

Mobility in soil No data available for this product.

Adsorption

Soil/sediment sorption - log Koc

CALCIUM STEARATE 5.86 Estimated

D-SORBITOL 0.3 Estimated

Mobility in general

Volatility

Henry's law

D-SORBITOL 0 atm m³/mol Estimated

Malic acid 0 atm m³/mol, 25 C Estimated

Other adverse effects Not available.

13. Disposal considerations

Disposal methods Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

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.

14. Transport information

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 Not available.

15. Regulatory information

Safety, health and environmental regulations

National regulations This Material Safety Data Sheet was prepared in accordance with the Australia National Code of Practice for the Preparation of Material Safety Data Sheets (NOHSC: 2011.)

Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix C

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix D

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix E

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix F

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix G

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix H

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix J

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix K

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 2

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 3

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 4

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 5

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 6

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 7

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 8

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 9

Poisons schedule number not allocated.

High Volume Industrial Chemicals (HVIC)

Calcium carbonate (CAS 471-34-1)

100000 - 999999 TONNES See the regulation for additional information.

CALCIUM STEARATE (CAS 1592-23-0)

1000 - 9999 TONNES See the regulation for additional information.

D-SORBITOL (CAS 50-70-4)

1000 - 9999 TONNES See the regulation for additional information.

Talc (CAS 14807-96-6)

100000 - 999999 TONNES See the regulation for additional information.

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

Not listed.

National Pollutant Inventory (NPI) substance reporting list

Not listed.

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

Restricted Carcinogenic Substances

Not regulated.

International regulations**Stockholm Convention**

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

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

Issue date 11-November-2014

Revision date 11-November-2014

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
Transport Information: Material Transportation Information
Regulatory Information: United States