

SAFETY DATA SHEET

1. Identification

Product identifier CITRUCEL ORANGE

Other means of identification

Synonyms CITRUCEL FIBER LAXATIVE ORANGE (US) * CITRUCEL ORANGE * METHYL CELLULOSE

FIBER THERAPY FOR REGULARITY * PERRIGO CODE 5E6AA * PROJECT FLUSH * MFC

50677 / 50678 * METHYL CELLULOSE, FORMULATED PRODUCT

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 useNo 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

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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 |
|--|--|------------------------------|
| Sucrose SUGAR CANE SUGAR BEET SUGAR CONFECTIONER'S SUGAR ALPHA-D-GLUCOPYRANOSIDE, BETA-D-FRUCTOFURANOSYL GRANULATED SUGAR SUCRALOX | 57-50-1 | 71 - 75 |
| METHYL CELLULOSE CELLULOSE, METHYL ETHER (1/2%) METHYLCELLULOSE | 9004-67-5 | 10 - 14 |

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| MALTODEXTRIN MALTRIN MALTRIN M 100 OHS13581 MALTODEXTRIN | 9050-36-6 | 5 - 7 |
|---|------------|--------|
| CITRIC ACID ANHYDROUS BETA-HYDROXYTRICARBALLYLIC ACID ANHYDROUS CITRIC ACID 2-HYDROXY-1,2,3-PROPANETRICARBOXYLIC ACID CITIRIC ACID | 77-92-9 | 3 - 5 |
| CALCIUM PHOSPHATE, DIBASIC CALCIUM ACID PHOSPHATE CALCIUM HYDROGEN ORTHOPHOSPHATE CALCIUM HYDROGEN PHOSPHATE CALCIUM MONOHYDROGEN PHOSPHATE CALCIUM ORTHOPHOSPHATE (CAHPO4) DIBASIC CALCIUM PHOSPHATE DICALCIUM ORTHOPHOSPHATE DICALCIUM PHOSPHATE MONOCALCIUM ACID PHOSPHATE CALCIUM PHOSPHATE | 7757-93-9 | 0 - 2 |
| Titanium dioxide TITANIUM OXIDE TITANIUM(IV) OXIDE TITANIUM PEROXIDE (TiO2) PIGMENT WHITE 6 | 13463-67-7 | < 0.05 |
| Other components below reportable levels | | < 10 |

4. First-aid measures

Description of necessary 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. Under normal conditions of intended use, this material is not

expected to be an inhalation hazard.

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 centre immediately. Do not induce vomiting without

medical advice.

Personal protection for first-aid

responders

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.

Symptoms caused by exposure

Medical attention and special

treatment

Direct contact with eyes may cause temporary irritation.

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

Water fog. Foam. Dry chemical powder.

Unsuitable extinguishing

media

Carbon dioxide (CO2).

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

Move containers from fire area if you can do so without risk. Use water spray to cool unopened

containers.

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Hazchem Code Not available.

General fire hazards Assume that this product is capable of sustaining combustion.

Specific methodsUse 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. 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. 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

Methods and materials for containment and cleaning up

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

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. For waste disposal, see section 13.

7. Handling and storage

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. Practice good housekeeping.

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 and personal protection

Control parameters

Follow standard monitoring procedures.

Occupational exposure limits

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|---|--------|----|
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| | | |

| Components | Туре | Value | |
|---|----------|-------------|--|
| CALCIUM PHOSPHATE, DIBASIC (CAS 7757-93-9) | OHC | 1 | |
| CITRIC ACID ANHYDROUS (CAS 77-92-9) | 8 HR TWA | 5000 mcg/m3 | |
| | OHC | 1 | |
| METHYL CELLULOSE (CAS 9004-67-5) | OHC | 1 | |

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

| Components | Туре | Value | Form | |
|-----------------------|------|----------|-----------------|--|
| Sucrose (CAS 57-50-1) | TWA | 10 mg/m3 | Inhalable dust. | |
| Titanium dioxide (CAS | TWA | 10 mg/m3 | Inhalable dust. | |

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

| Components | Туре | Value | Form |
|-----------------------------------|------|----------|------------------|
| Sucrose (CAS 57-50-1) | TWA | 10 mg/m3 | Inspirable dust. |
| Titanium dioxide (CAS 13463-67-7) | TWA | 10 mg/m3 | Inspirable dust. |
| US. ACGIH Threshold Limit Values | | | |
| Components | Tyne | Value | |

Components Type Value

 Sucrose (CAS 57-50-1)
 TWA
 10 mg/m3

 Titanium dioxide (CAS
 TWA
 10 mg/m3

 13463-67-7)
 TWA
 10 mg/m3

UK. EH40 Workplace Exposure Limits (WELs)

| Components | Type | Value Form | |
|-----------------------|------|------------|--|
| Sucrose (CAS 57-50-1) | STEL | 20 mg/m3 | |
| | TWA | 10 mg/m3 | |

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UK. EH40 Workplace Exposure Limits (WELs)

| Components | Туре | Value | Form | |
|-----------------------------------|------|----------|-------------|--|
| Titanium dioxide (CAS 13463-67-7) | TWA | 4 mg/m3 | Respirable. | |
| , | | 10 mg/m3 | Inhalable | |

Biological limit values

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

Appropriate engineering controls

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. General ventilation normally adequate.

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

Eye/face protection Not normally needed. If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection Not normally needed. For prolonged or repeated skin contact use suitable protective gloves.

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

contamination.

Respiratory protection No personal respiratory protective equipment normally required. When workers are facing

concentrations above the exposure limit they must use appropriate certified respirators.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

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. For advice on suitable monitoring methods, seek guidance

from a qualified environment, health and safety professional.

9. Physical and chemical properties

Appearance

Solid. Physical state **Form** Powder. Colour Not available. Odour Not available. Not available. **Odour threshold** Not available. pН Melting point/freezing point Not available. Not available. Initial boiling point and boiling range Flash point Not available.

Evaporation rate

Flammability (solid, gas)

Not available. Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Not available. Explosive limit - lower (%)

Explosive limit - upper

Not available.

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

Solubility(ies)

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

(n-octanol/water)

Not available. **Auto-ignition temperature**

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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.

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. Avoid dispersal of dust in the air (i.e., clearing dust surfaces

with compressed air). Heat, flames and sparks.

Incompatible materials Strong oxidising agents.

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

Expected to be a low ingestion hazard. However, ingestion is not likely to be a primary route of Ingestion

occupational exposure.

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

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

Health injuries are not known or expected under normal use. Direct contact with eyes may cause Eye contact

temporary irritation.

Symptoms related to exposure None known.

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

Components **Test results**

CALCIUM PHOSPHATE, DIBASIC (CAS 7757-93-9)

Acute

Dermal

Rabbit LD50 > 7940 mg/kg

Oral

LD50 Rat > 10 g/kg

CITRIC ACID ANHYDROUS (CAS 77-92-9)

Acute

Oral

LD50 Rat 3000 mg/kg

MALTODEXTRIN (CAS 9050-36-6)

Acute

Oral

LD50 Rat > 2000 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. 250 mg/m3, 2 years Highest dose

NOAEC Rat

5 mg/m3, 24 months

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| omponents Species | | Test results |
|-------------------|------------|---|
| 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.

Health injuries are not known or expected under normal use. Skin corrosion/irritation

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

Health injuries are not known or expected under normal use. Direct contact with eyes may cause Serious eye damage/irritation

temporary irritation.

Eye

TITANIUM DIOXIDE OECD 405, Literature data

> Result: Mild irritant Species: Rabbit

Respiratory or skin sensitisation

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

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

TITANIUM DIOXIDE Ames, Literature data

Result: negative

Micronucleus Assay in vitro, CHO cells, Literature data

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

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Carcinogenicity

Health injuries are not known or expected under normal use. Contains a material (titanium dioxide) 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

ACGIH Carcinogens

SUCROSE (CAS 57-50-1) TITANIUM DIOXIDE (CAS 13463-67-7) A4 Not classifiable as a human carcinogen. A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

TITANIUM DIOXIDE (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

Reproductive toxicity 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 Not likely, due to the form of the product.

Other information None known.

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.

Species Test results Components CITRIC ACID ANHYDROUS (CAS 77-92-9) Aquatic Acute Crustacea EC50 Water flea (Daphnia magna) 120 mg/l, 72 hours Static test Fish EC50 Bluegill sunfish (Adult Lepomis 1516 mg/l, 96 hours Static test macrochirus) Golden ide/orfe (Adult Leuciscus idus) 440 - 760 mg/l, 96 hours Static test Microtox EC50 Microtox 14 mg/l, 15 minutes METHYL CELLULOSE (CAS 9004-67-5) Aquatic Acute Fish EC50 Orange-red killfish (Adult Oryzias > 1000 mg/l, 48 hours Static test latipes)

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Components **Species Test results**

Titanium dioxide (CAS 13463-67-7)

Aquatic Acute

Crustacea EC50 Water flea (Daphnia magna) > 1000 mg/l, 48 hours Static test

No data is available on the degradability of this product. Persistence and degradability

Biodegradability

Percent degradation (Aerobic biodegradation-inherent)

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

Sucrose 69 % BOD5

No data available. Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

-3 Sucrose

Mobility in soil Not available.

Volatility

Henry's law

CITRIC ACID ANHYDROUS < 0 atm m^3/mol Calculated, 25 °C Sucrose < 0 atm m^3/mol Estimated

Other adverse effects Not available.

13. Disposal considerations

Disposal methods Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

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).

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

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 Not available.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

Safety, health and environmental regulations

This Material Safety Data Sheet was prepared in accordance with the Australia National Code of **National regulations**

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.

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

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)

CITRIC ACID ANHYDROUS (CAS 77-92-9)

1000 - 9999 TONNES See the regulation for additional

information.

TITANIUM DIOXIDE (CAS 13463-67-7)

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.

Resricted 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.

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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 |

^{*}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).

Toxic Substances Control Act (TSCA) Inventory

16. Other information

United States & Puerto Rico

Issue date 08-August-2014 08-August-2014 **Revision date**

References **GSK Hazard Determination**

The information and recommendations in this safety data sheet are, to the best of our knowledge, Disclaimer

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.

Product and Company Identification: Product and Company Identification **Revision Information**

Composition / Information on Ingredients: Undisclosed Ingredient Statement

Physical & Chemical Properties:

Transport Information: Agency Name, Packaging Type, and Transport Mode Selection

Regulatory Information: United States

GHS: Classification

Material name: CITRUCEL ORANGE

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No