



# G-Block DT 200 CCT

## (Material) Safety Data Sheets

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

#### 1.1. Product Identifier

<b>Chemical Type</b>	Mixture, containing titanium dioxide
<b>Trade Name</b>	<b>G-Block DT 200 CCT</b>

#### 1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

##### 1.2.1 Relevant Identified Uses

<b>Major use category</b>	Personal care, Cosmetic and Toiletry
<b>Use of the Substance/Mixture</b>	Protection against UVA/UVB ray

##### 1.2.2. Uses Advised Against

No additional Information available.

#### 1.3. Details of the Supplier of the Material Safety Data Sheet

**For Product, safety, and pricing Information, please contact Applechem or your local distributors/agents**

Applechem, Inc.

2 Cranberry Road, Unit A4

Parsippany-Troy Hills, NJ 07054, USA

(O) 862-210- 8344 (F) 862-210-8336. [sales@applechem.com](mailto:sales@applechem.com) website: [www.applechem.com](http://www.applechem.com)

## 1.4. Emergency Telephone Number

**The following phone # is ONLY for Chemical Emergency – Spill, Leak, Fire, Exposure, or Accident.**

**\*phone # must be dialed within the country**

<u>Country</u>	<u>Emergency phone #</u>	<u>Language</u>
United States and Canada*	1-800-424-9300	English
Outside of US and Canada	+1-703-527-3887	English
<u>Europe</u>		
France	+33-975181407	French
Germany*	0800-181-7059	German
Italy*	800-789-767	Italian
Italy (Milan)	+39-0245557031	Italian
Poland (Warsaw)	+48-223988029	Polish
Spain*	900-868538	European Spanish
UK ( London)	+44-870-8200418	English
<u>Asia</u>		
S. Korea*	00-308-12--2549	Korean
Taiwan*	00801-14-8954	Mandarin
People's Republic of China*	4001-204937	Mandarin

## SECTION 2: Hazards Identification

### 2.1. Classification of the Substance or Mixture

### 2.1.1 Classification According to GHS and Regulation (EC) number – 1272/2008 (CLP)

Not Classified

No hazard symbol, No hazard statement; No precautionary statement

### 2.1.2 Classification According to Directive 67/548/EEC or 1999/45/EC

Not Classified

### 2.1.3 Adverse Physicochemical, Human health and Environmental Effects

**Eye Contact:** May cause slight eye irritating.

**Skin Contact:** Brief contact is essentially nonirritating to skin. Prolonged contact may cause slight skin irritation with local redness. Repeated contact may cause light skin irritation with local redness

**Skin Absorption:** Prolonged skin contact is unlikely to result in absorption of harmful amounts

**Inhalation:** At room temperature, exposure to vapor is minimal due to low volatility.

**Ingestion:** Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal operation are not likely to cause injury; However, swallowing a large amount may cause injury. Swallowing may result in gastrointestinal irritation. May cause nausea and vomiting.

### 2.2.1 Labeling According to GHS and Regulation (EC) Number 1272/2008 (CLP)

Hazard Statement	None
Precautionary Statements	None
Additional Advise	None
GHS Product Identifier	G-block DT 200 CCT

### 2.3. Other Hazards

No data available

## SECTION 3: Composition and Information on Ingredients

### 3.2. Mixtures

This product is a proprietary mixture with the INCI: Titanium Dioxide (and) Caprylic/Capric Triglyceride (and)

Polyhydroxystearic Acid (and) Alumina (and) Polyglyceryl-3 Polyricinoleate (and) Isostearic Acid (and) Lecithin (and) Stearic Acid.

There are no ingredients which, with the best knowledge of the supplier and in the concentration applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or haven been assigned a workplace exposure limit and hence require reporting in this section.

## SECTION 4: First Aid Measures

### 4.1. Description of First Aid Measures

<b>General</b>	If potential for exposure exists refer to Section 8 for specific personal protective equipment
<b>Inhalation</b>	Move person to fresh air; Obtain medical service if ill effects occur.
<b>skin contact</b>	Remove contaminated clothing, and wash with water and soap. If irritation persists, consult medical service
<b>Eye contact</b>	Irrigate with eyewash solution or clean water. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. Hold the eyelids apart and flush for at least 10 minutes. Consult with eye doctor if irritation persists
<b>Ingestion</b>	Wash out mouth with water and give 200 -300 ml of water to drink. Consult with medical services if ill effects occur.

### 4.2. Most Important Symptoms and Effects, both Acute and Delayed

**Symptoms/Injuries:** No additional information available

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

No supplemental information available

## SECTION 5: Fire Fighting Measures

### 5.1. Extinguishing Media

Water fog or fine spray; Dry chemical fire extinguishers; Carbon dioxide fire extinguishers; Foam – general purpose synthetic foams ( including AFFF type) or protein foams are preferred if available.

### 5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard	Direct fire hazard – Combustible. Indirect fire Hazard – heating increases the fire hazard. Temperature above flash point – higher fire/explosion hazard
Explosion Hazard	No direct explosion hazard. Violent steam generation or eruption may occur upon application of direct water stream to hot liquid. Dense smoke may be produced when product burns.
Reactivity:	On burning – release of carbon monoxide/carbon dioxide and other combustion products of varying composition which may be toxic and/or irritating.
General Measures:	Mark the danger area. Exposure to heat – have neighborhood close doors and windows. Exposure to fire/heat – consider evacuation. Wash contaminated clothes

### 5.3. Advice for Firefighters

**Fire fighting procedures:** Keep people away. Isolate fire and deny unnecessary entry. Do not use direct water stream, May spread fire. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Contain fire water run-off if possible. If not contained, fire water run-off may cause environmental damage. Review the “Accidental Release Measures” and the “Ecological information” sections.

**Special Protective equipments for fire fighter:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance

## SECTION 6: Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

#### 6.1.1. For Non-Emergency Personnel

Spilled material may cause a slipping hazard. Refer to section 7 and 8 for handling and exposure control/personal protection

#### 6.1.2. For Emergency Responders

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7 and 8 for handling and exposure control/personal protection

### 6.3. Methods and Material for Containment and Cleaning Up

Contain spilled material if possible. Scrap the spilled material into containers. Absorb with materials such as: Non-combustible material, sand. Wash the spill site with water and soap. Large spills: collect in suitable and properly labeled containers. See Section 13 – Disposal consideration, for additional information.

#### 6.4. Reference to Other Sections

Section 7 and 8

### SECTION 7: Handling and Storage

#### 7.1. Precautions for Safe Handling

Prevent eye contact and ingestion. Wash thoroughly with soap/water after handling.

#### 7.2. Conditions for Safe Storage, Including any Incompatibilities

<b>Prohibitions on mixed storage</b>	Keep the product away from: ignition sources , strong acids, strong bases, and strong oxidizing agents
<b>Storage area</b>	In well-ventilated place, at room temperature. Meet the legal requirements
<b>Special rules on packaging</b>	Keep it closed, correctly labeled, and meet with the legal requirements
<b>Packaging materials</b>	Plastics or steel with plastic inner lining.

#### 7.3. Specific End Uses

No additional information is available

### SECTION 8: Exposure Controls and Personal Protection

#### 8.1. Control Parameters

EU	None
Exposure Limits (s)	Although some of the components of this product may have exposure guidelines. No exposure would be expected under normal handling conditions due to the physical state of this product

#### 8.2. Exposure Controls

Personal protective equipment	Use safety glasses (with side shields), Wear clean, body-covering clothes. Use gloves when prolonged or frequently repeated contact could occur. Select the gloves which have good chemical resistant to this product and other commonly used products in your production.
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Respiratory Protection	Under intended handling conditions, no respiratory protection should be needed.
Ingestion	Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.
Ventilation	Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operation. Local exhaust ventilation may be necessary for some operations.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

<b>Appearance (room temperature):</b>	Off-white paste
<b>Color:</b>	Off-white
<b>Odor:</b>	Mild characteristic odor
<b>pH:</b>	No applicable.
<b>Melting point:</b>	Not applicable
<b>Solidification point:</b>	No test data available
<b>Boiling point:</b>	No test data available
<b>Flash point:</b>	No test data available
<b>Vapor pressure:</b>	No supplemental data available
<b>Relative vapor density at 20°C:</b>	No supplemental data available
<b>Density:</b>	1.45 -1.75
<b>Solubility</b>	Not soluble in water. Dispersible in oils
<b>Log Power</b>	No supplemental data available
<b>Self ignition temperature</b>	No supplemental data available
<b>Decomposition temperature</b>	No supplemental data available
<b>Viscosity</b>	10,000 -150,000 cP

## 9.2. Other Information

**Other Properties** Not dispersible in water. Dispersible in oil, and most organic solvents

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use. On burning, release carbon monoxide/carbon dioxide, and other combustion productions which may be toxic or irritating.

### 10.2. Chemical Stability

Stable under normal use condition

### 10.3. Possibility of Hazardous Reactions

Polymerization and other hazardous reactions will not occur under normal use conditions

### 10.4. Conditions to Avoid

Exposure to elevated high temperature can cause product to decompose

### 10.5. Incompatible Materials

Avoid strong oxidizing agents, strong acid and base

### 10.6. Hazardous Decomposition Products

No supplementary information available

## SECTION 11: Toxicological Information

### 11.1. Information on Toxicological Effects

The following information is based on a consideration of the properties of the main components- Titanium. This data is based on publically available information, the information by their manufactures, and data on the similar products.

#### Titanium Dioxide powder

#### Acute Toxicity

**Oral** LD 50 > 12,000 mg/Kg in rats



<b>Dermal</b>	LD 50 > 10,000 mg/Kg in rabbits
<b>Inhalation</b>	LD 50> 6.82 mg/L/4h in rats
<b>Skin corrosion/irritation</b>	Not classified. Very slight irritations to the skin could occur.
<b>Serious eye damage/irritation</b>	Not Classified. Mild irritation in rabbits. However, this effect was fully reversible after 24 hr and there were no corneal lesions, the iris was not affected, and there were no systemic intolerance reactions.
<b>Respiratory and skin sensitization</b>	Not classified
<b>Germ cell mutagenicity</b>	Not classified. Negative in mouse test for chromosomal abnormalities. Negative in Ames test.
<b>Carcinogenicity</b>	IARC: Group 2B ( possibly carcinogenic to humans)  In lifetime inhalation studies of rats, mice and hamsters, only in rats, lung tumors were found to occur when particles of TiO <sub>2</sub> were overloaded. In further studies of rats, other poorly soluble low –toxicity particles such as silica and carbon black also induced lung tumors. These findings indicate that the formation of lung tumors in rats could be species specific. In addition, several epidemiological studies in Europe and USA suggested that TiO <sub>2</sub> dust did not show any relationship to carcinogenic effects on lung. Conclusive but not sufficient for classification.
<b>Reproductive toxicity</b>	No data available.
<b>Specific target-organ – repeated exposure</b>	No toxicologically significant effects were found at the guidance value in oral studies on rats and mice. In addition, no toxicologically significant effects were found at the guidance value in two-year inhalation studies on rats. A small number of workers who were exposed over a period of 20 years showed pneumoconiosis on their X-rays. However, human epidemiological studies do not suggest an association between exposure to titanium dioxide and a risk of pulmonary fibrosis. Conclusive but not sufficient for classification.
<b>Aspiration hazard</b>	Not classified

## SECTION 12: Ecological Information

### 12.1. Toxicity.

	<b>Titanium dioxide</b>	<b>Caprylic/capric Triglyceride</b>
Acute aquatic toxicity	Not Classified. Daphnia magna EC <sub>50</sub> > 1000mg/L (48Hr) (Aquire, 2003). Insoluble in water.	Not classified

Chronic aquatic toxicity

Not classified.

Not Classified

### 12.2. Persistence and Degradability

Titanium Oxide

Biodegradation is not applicable

Caprylic/Capric triglyceride

Readily biodegradable. OECE test (Method ISO 10708): Biodegradation -93%, exposure time -28 d; 10-day Window -Pass.

### 12.3. Bioaccumulative Potential

Titanium Dioxide

Partition coefficient, n-octanol/water is not applicable

Caprylic/capric triglyceride

Log Pow > 3

### 12.4. Mobility in Soil

Titanium Dioxide

No data available

Caprylic/capric triglyceride

No supplemental data available

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Other Adverse Effects

No supplemental data available

## SECTION 13: Disposal Considerations

### 13.1. Waste Treatment Methods

Disposal

Wear protective clothing to prevent skin and eye contamination, as well as dust masks to avoid dust inhalation. For small spills, remove and wipe up residue using absorbent material. For larger spills, gather together material using appropriate tools (shovel, scraper) and place in appropriate container for disposal. Please exercise caution as contaminated surfaces will be very slippery. Any dust formation

must be cleaned using a vacuum cleaner equipped with HEPA-type filter. Disposed in accordance with country, state, and local regulations. For unused & uncontaminated product, the preferred options include sending to a licensed, permitted recycler or reclaimer for incinerator or other thermal destruction device.

Ecology – waste materials

Do not discharge into drains or the body of water. Dispose by a licensed waste treatment company.

Regional legislation (waste)

No supplemental information available

#### SECTION 14: Transport Information

DOT Non-Bulk	Not regulated
DOT Bulk	Not regulated
UN number	Not Regulated
UN packaging group	
UN Hazard class-primary	
<b>International Maritime Organization (IMDG)</b>	Not Regulated
Proper shipping name	
Marine Pollutant	
class-primary	
EMS number	
<b>International Air Transportation Association Classification (IATA)</b>	Not regulated
Proper shipping name	
Hazard class	
ID #	
Packing group	
Cargo packing instruction	
Passenger Packing Instruction	

**SECTION 15: Regulatory Information**

**15.1. Safety, Health and Environmental Regulations/Legislation specific to Substance/Mixture**

**HMIS ( USA)** Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: C

**NFPA (USA)** Health: 1 Fire Hazard: 1 Instability: 0 Special Hazard: None

**OSHA Hazard Communication Standard, 29 CFR 910.1200** Not a "hazardous chemical"

**Resource Conservation and Recovery Act –RCRA (40 CFR 261)**

To our best knowledge, this product doesn't contain the substances which are subject to the reporting requirements of this statute

**Comprehensive Environmental Response, Compensation and Liability (CERCLA/Superfund)**

To our best knowledge, this product doesn't contain the substances which are subject to the reporting requirements of this statute

**Superfund Amendments and Reauthorization Act of 1986 Title III**

**Section 302 – Extremely Hazardous Substances**

To our best knowledge, this product doesn't contain the substances which are subject to the reporting requirements of this statute

**Section 304 – Hazardous Substances**

To our best knowledge, this product doesn't contain the substances which are subject to the reporting requirements of this statute

**Section 311/312 – Hazardous Communication Standard**

Fire hazard No

Reactive hazard No

Sudden Release of Pressure Hazard No

**Sections 313 (Toxic Chemical List).**

To our best knowledge, This product doesn't contain the substances which are subject to the reporting requirements of this statute.

**Pennsylvania (worker and community Right-to-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List.**

To the best of our knowledge, this product does not contain the substance which are cited in this list, and are present at levels

which require reporting

**Pennsylvania (worker and Community Right-to-Know Act): Pennsylvania Special Hazardous Substance List:**

To the best of our knowledge, this product does not contain the substance at level which requires reporting under this statute.

**California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)**

Warning! This product contains a Titanium Dioxide known to the State of California to cause cancer. The listing of Titanium dioxide (airborne, unbound particles of respirable size) as a carcinogen is effective September 2, 2011. The listing does not cover titanium dioxide when it remains bound within a product matrix.

**New Jersey RTK- Substance: Listed substance**

To the best of our knowledge, this product does not contain chemical at level which require reporting under this statute.

**Massachusetts RTK – Substance: Listed Substance**

To the best of our knowledge, this product does not contain chemical at level which require reporting under this statute.

**Chemical Inventory Legend**

**Compliant**

AICS – Australian Inventory of Chemical Substances	Y
DSL – Canadian Domestic Substances List	Y
ECL – Korean Existing Chemical List	Y
IECS – Inventory of Existing Chemicals in China	Y
NZIOC – New Zealand Inventory of Chemicals	Y
PICCS – Philippine Inventory of Chemicals and Chemical Substances	Y
TSCA - USA Toxic Substances Control Act	Y
EC Inventories – European Community Inventories of Chemicals (EINECS/ELINCS/NLP/REACH)	Y

**15.2. Chemical Safety Assessment**

No supplemental data available

**SECTION 16: Other Information**

SDS Reason for revision	To change the date of caprylic/Capric Triglyceride from the new information of supplier
SDS changed sections	3.2
Training advice	
Other information	

<b>Key or legend to abbreviations and acronyms</b>
None
<b>Key Literature references and sources for data:</b>
Refer to the respective sections
Component supplier's data

<b>Classification/evaluation Procedure –EC No. 1272/2008 (CLP), article 9</b>
This product is not classified. This product's physical state is a paste which encases/traps all titanium oxide particles, which is not expected to become a "respirable" dust under normal use condition.
<b>Full text of phrases/statements which are not written out in full under section 2 -15.</b>
None

<b>Training Advice</b>	No data available
<b>Further information</b>	No data available
<b>Instruction for use</b>	No data available

**Disclaimer**

The information in this publication is based on the public information and the SDS/MSDS and information supplied by the component's suppliers. The information is believed to be accurate and is given in good faith but not representation or warranty as to its completeness or accuracy is made.

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