

# S-block DZ-100 PDCC

## (Material) Safety Data Sheets

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

#### 1.1. Product Identifier

**Chemical Type** Mixture, containing about 80% Zinc Oxide

**Trade Name** S-block DZ 100 PDCC

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

##### 1.2.1 Relevant Identified Uses

**Major use category** Personal care, cosmetic and toiletry

**Use of the Substance/Mixture** Protection against UVA and UVB; skin protection.

##### 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, NJ 07054 USA

(O) 862-210- 8344 (F) 862-210-8336. sales@applechem.com website: www.applechem.com

#### 1.4. Emergency Telephone Number

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

<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).

H400 -Acute aquatic toxicity: Category 1. Very toxic to aquatic life

H410-Long term hazard to aquatic environment : Category 1, Very toxic to aquatic life with long lasting effect

#### 2.1.2. Classification according to EU Directives 67/548/EEC or 1999/45/EC

N; R50/53

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



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Acid (and) Polyglyceryl-3 Polyricinoleate (and) Triethoxycaprylylsilane (and) Lecithin.

INCI Name/Chemical Name	%	CAS #	EC #	CLP Classification
Zinc Oxide	77 - 81%	1314-13-2	215-222-5	Aquatic Acute 1 H400, Aquatic Chronic 1 H410
Triethoxyoctylsilane	0.5 - 5%	2943-75-1	220-941-2	Skin Irrit. 2, H315

There are no additional 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

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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 – Not flammable, 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

**Firefighting 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 equipment for fire fighter:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting 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. Absorb with materials such as: sand, earth, non-combustible material. Wash the spill site with water. 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

## 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 limit(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
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have good chemical resistant to this product and other commonly used products in your production.

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>	Not 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>	> 192 C according to the literature
<b>Vapor pressure:</b>	No supplemental data available
<b>Relative vapor density at 20°C:</b>	No supplemental data available
<b>Density:</b>	2.45 – 2.85
<b>Solubility</b>	Not soluble in water. Dispersible in oils
<b>Log Pow</b>	No supplemental data available
<b>Self ignition temperature</b>	No supplemental data available

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<b>Decomposition temperature</b>	No supplemental data available
<b>Viscosity</b>	6000 – 120000 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 will not occur

### 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- Zinc Oxide, Triethoxyoctylsilane and Propanediol Dicaprylate/Caprate. This data is based on publically available information, the information by their manufacturers, and data on the similar products**

#### **Acute toxicity**

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<b>Oral</b>	Not classified
<b>Dermal</b>	Not classified
<b>Inhalation</b>	Not classified  Under normal use conditions, this product does not pose an inhalation risk
<b>Dermal Corrosion</b>	Not classified
<b>Serious damage to eyes</b>	Not classified
<b>Respiratory sensitization</b>	Not classified
<b>Skin Sensitization</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified
<b>Carcinogenicity</b>	Not classified
<b>Reproductive toxicity</b>	Not classified
<b>Specific target organ toxicity (repeated exposure)</b>	Not classified
<b>Aspiration hazards</b>	Not classified

## SECTION 12: Ecological Information

### 12.1. Toxicity.

The information is based on the main components - Zinc Oxide and Triethoxyoctylsilane. The remaining components are not expected to present any ecological hazards, based on the available data.

Ecology – general:                      Very toxic to aquatic organisms

Ecology – water:                        Very toxic to aquatic organisms. Do not discharge into the drains.



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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 UN 3082

UN packaging group PG III

UN Hazard class-primary 9

International Maritime Organization (IMDG)

Proper shipping name Environmentally hazardous substance, liquid, N.O.S (contains Zinc Oxide)

Marine Pollutant Yes

class-primary 9

EMS number F-A, S-F

International Air Transportation Association  
Classification (IATA)

Proper shipping name Environmentally hazardous substance, liquid, N.O.S (contains Zinc Oxide)

Hazard class 9

ID # UN 3082

Packing group PG III

Cargo packing instruction 964

Passenger Packing Instruction 964

**ADR/RID**

Proper shipping name: Environmentally Hazardous substance, Solid, N.O.S.  
(Zinc Oxide)

UN no. 3077,

Class 9

Packaging group III

ADR/RID-Labels 9+ENV

Risk No. 90

Limited quantity 5 Kg

Tunnel code E

**SECTION 15: Regulatory Information**

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

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

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

**OSHA Hazard Communication Standard, 29 CFR 1910.1200** Not considered a “hazardous chemical” as defined by 29 CFR 1910.1200

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

Not listed

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

No RQ

**Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III**

**Section 302 – Extremely Hazardous Substances**

Not listed

**Section 304 – Hazardous Substances**

No RQ

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**Sections 311 and 312- Hazardous Communication Standard**

Immediate (acute) health hazard	No
Delayed (Chronic) health hazard	No
Fire hazard	Not flammable
Reactive hazard	No
Sudden Release of Pressure Hazard	No

**Sections 313-Toxic Chemical List**

This product contains the following substances which are subject to the reporting requirements of this regulation..

Zinc oxide, CAS # 1314-13-2 > 60%; < 75%

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

The following product components are cited in this list, and are present at levels which require reporting:

Zinc oxide, CAS # 1314-13-2 > 76%; < 82%

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

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

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

To the best of our knowledge, this product does not contain any listed substance known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

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

Zinc Oxide, CAS # 1314-13-2, > 60%; < 75%

**Massachusetts RTK – Substance: Listed Substance**

Zinc Oxide, CAS # 1314-13-2, > 60%; < 75%

**Chemical Inventory Legend**

**Compliant**

AICS – Australian Inventory of Chemical Substances	Y
DSL – Canadian Domestic Substances List	Y
ECL – Korean Existing Chemical List	Y

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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	Updated Toxicology and Ecological section with more applicable information
SDS changed sections	Section 11 and 12
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
McLean and Bledsoe 1992, Behavior of Metals in Soils. EPA/540/S-92/018

<b>Classification/evaluation Procedure –EC No. 1272/2008 (CLP), article 9</b>
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Based on the physical state (paste) of this product, being a mixture, and public data of Zinc oxide hazardous classification.	
<b>Full text of phrases/statements which are not written out in full under section 2 and 3</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 (M) SDS 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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