

Date of issue: 30/01/2019

**Safety Data Sheet****扫码联系****产品经理:****1. Identification of the substance/mixture and of the company/undertaking**

Product identifier:

Product name: DWB-Z 052A WHITE

Product code(SDS NO): G201900020500\_E1-1

Details of the supplier of the safety data sheet

Manufacturer/Supplier: NIKKO BICS.CO.,LTD

Address: 1-3-5 UCHI-KANDA CHIYODA-KU,TOKYO 101-0047 JAPAN

Division: SDS support

Telephone number: 81-3-3294-8311

FAX: 81-3-3233-4436

Emergency telephone number : 81-47-497-1371

**2. Hazards identification**

GHS classification and label elements of the product

Classification of the substance or mixture

**HEALTH HAZARDS**

Serious eye damage/eye irritation: Category 2B

Carcinogenicity: Category 2

(Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

Label elements



Signal word: Warning

**HAZARD STATEMENT**

Causes eye irritation

Suspected of causing cancer

**3. Composition/information on ingredients**

Mixture/Substance selection:

Mixture

Ingredient name: Titanium dioxide

Content(%): 17.5 – 22.5

Chemicals No, Japan: 1-558

CAS No.: 13463-67-7

Ingredient name: Glycerin

Content(%): 1 – 5

Chemicals No, Japan: 2-242

CAS No.: 56-81-5

Ingredient name: Additive

Content(%): 10 – 15

Chemicals No, Japan: Trade secret

CAS No.: Trade secret

Ingredient name: Water

Content(%): 65 – 70

CAS No.: 7732-18-5

Note : The figures shown above are not the specifications of the product.

Components contributing to the hazard

Component(s) come under Labeling, etc. article of Industrial Safety and Health Act, Japan

Titanium dioxide

Component(s) come under Deliver of Documents, etc. article of Industrial Safety and Health Act, Japan

Titanium dioxide

Not contain Component come under Harmful Substances article of PRTR Law, Japan

#### 4. First-aid measures

Descriptions of first-aid measures

General measures

IF exposed or concerned: Get medical attention/advice.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN (or hair)

Wash with soap and water.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Seek medical advice immediately and show this container or label.

Rinse mouth with water.

Protective measures for first aid

Protect yourself by wearing rubber gloves and air-tight safety goggles.

#### 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

In case of fire, use water mist, foam, dry powder, CO<sub>2</sub>.

Use appropriate extinguishing media suitable for surrounding facilities.

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Shut off fuel to fire if possible to do so without hazard.

Keep personnel removed from and upwind of fire.

Be careful not to spill the material into the environment during firefighting measures.

Special protective equipment and precautions for fire-fighters

Firefighters should wear proper protective equipment.

#### 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Keep unauthorized personnel away.

Wear proper protective equipment.

Be careful not to slip on spilled area.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

#### Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

For large spill, dike for later disposal.

#### Preventive measures for secondary accident

Prepare extinguishers before catching fire.

Stop leak if you can do it without risk.

Prevent entry into waterways, sewers, basements or confined areas.

### 7. Handling and storage

#### Precautions for safe handling

##### Preventive measures

(Exposure Control for handling personnel)

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear proper protective equipment.

##### Safety treatments

Avoid contact with skin.

Avoid contact with eyes.

##### Safety Measures/Incompatibility

Do not handle until all safety precautions have been read and understood.

Use personal protective equipment as required.

Do not empty into drains.

Avoid rough handling or dropping.

#### Conditions for safe storage, including any incompatibilities

##### Recommendation for storage

Store in a dry place. Store in a closed container.

##### Incompatible storage condition

Keep away from heat.

Do not expose to direct sunlight.

### 8. Exposure controls/personal protection

#### Control parameters

No control value data available

##### Adopted value

(Titanium dioxide)

JSOH(2013) 0.3mg-nanoparticle/m<sup>3</sup>

(Titanium dioxide)

ACGIH(1992) TWA: 10mg/m<sup>3</sup> (LRT irr)

#### Exposure controls

##### Appropriate engineering controls

Do not use in areas without adequate ventilation.

##### Individual protection measures

##### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

##### Hand protection

Wear suitable gloves.

##### Eye protection

Wear eye/face protection.

##### Skin and body protection

Wear suitable protective clothing.

##### Safety and Health measures

Wash ... thoroughly after handling.

Wash hands before breaks and at the end of work.

Gargle before breaks and at the end of work.

## 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical properties

Appearance: Liquid

Color: white

Odor: Characteristic odor

pH data N.A.

Phase change temperature

Initial Boiling Point/Boiling point data N.A.

Melting point/Freezing point data N.A.

Decomposition temperature data N.A.

Flash point data N.A.

Auto-ignition temperature data N.A.

Specific gravity/Density: 1.2

## 10. Stability and Reactivity

Chemical stability

This product is considered a stable material under normal and anticipated storage and handling conditions.

## 11. Toxicological Information

Information on toxicological effects

No Acute toxicity data available

Irritant properties

Serious eye damage /irritation

[GHS Cat. Japan, base data]

(Titanium dioxide)

rabbit mild irritaton (IUCLID, 2000)

No Allergenic and sensitizing effects data available

No Mutagenic effects data available

Carcinogenicity

[GHS Cat. Japan, base data]

(Titanium dioxide)

IARC (Monograph Vol.93, in preparation) Particle size 10-50nm Gr.2B

(Titanium dioxide)

IARC-Gr.2B : Possibly carcinogenic to humans

(Titanium dioxide)

ACGIH-A4(1992) : Not Classifiable as a Human Carcinogen

No Teratogenic effects data available

No reproductive toxicity data available

No STOT-single/repeated exposure data available

No Aspiration hazard data available

## 12. Ecological Information

### Toxicity

No Aquatic toxicity data available

### Water solubility

(Titanium dioxide)

none (HSDB, 2004)

(Glycerin)

miscible (ICSC, 2006)

No Persistence and degradability data available

### Bioaccumulative potential

(Glycerin)

log Pow=-1.76 (ICSC, 2006)

## 13. Disposal considerations

### Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Do not dump into sewers, on the ground or into any body of water.

Use appropriate containment to avoid environmental contamination.

## 14. Transport Information

### UN No, UN CLASS

Not applicable to UN NO.

### Special precautions for user

Protect against direct sunlight or rain.

## 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Industrial Safety and Health Act, Japan

Chemical Substances requiring Labeling and Deliver of Documents, etc.

Labeling, etc.

Titanium dioxide

Report required substances

Titanium dioxide

The product is not applicable to Pollution Release and Transfer Register (PRTR) law, Japan

The product is not applicable to Fire Service Act, Japan

## 16. Other information

### Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN

2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)

2017 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Supplier's data/information

### General Disclaimer

This document describes hazardous and harmful character at the shipping form.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.