01754-1006

SAFETY DATA SHEET

Issuing Date	6/1/2018	**Revision Date**	5/26/2021	**Revision Number**	2

1. IDENTIFICATION

Product Identifier

Product Name WC211, WC215, WC216-xx, WC220

Other means of identification

Synonyms NONE

Recommended use of the chemical and restrictions on use

Recommended use Artistic Medium

Uses advised against

Details of the supplier of the safety data sheet

Supplier Name Yasutomo

Supplier Address 3740 Skypark Dr
Torrance CA 90505

Supplier Phone Number 310-791-1995

Supplier Email csr@yasutomo.com

Emergency telephone number 911

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acacia	9000~01~05
Calcium Carbonate	471-34-1
Kaolin	1332-58-7
Glycerin	56-81-5
2-Naphthalenecarboxamide, 3-hydroxy-4-{(2-methoxy-5-nitrophenyl)azo}-N-(3-nitrophenyl)-	6471-49-4
Pigment Yellow 42	51274-00-1
Pigment Orange 16	6505-28-8
Pigment Green 7	1328-53-6
Pigment Blue 15:3	147-14-8
Titanium Oxide	13463-67-7
Pigment Blue 29	57455-37-5
Barium Sulfate	7727-43-7
Iron Oxide	1309-37-1
Calcium Oxide	1305-78-8
Pigment Black 9	8021-99-6
Copper	7440-50-8
Zinc	7440-66-6
Mica	12001-26-2

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Warning

Hazard Statements

If medical advice is needed, have product container or label at hand

Keep out of reach of children
Read label before use

Appearance **Physical State** **Odor**

Precautionary Statements - Prevention

Precautionary Statements - Response

Eyes

Skin

Ingestion

Precautionary Statements - Storage

Precautionary Statements - Disposal

Hazard not otherwise classified (HNOC)
Combustible Dust
Unknown Toxicity

Other information

Interactions with Other Chemicals

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Maltose Powder	6363-53-7	20-25%	*
Arabic Gum	9000~01~05	15-20%	*
Calcium Carbonate	471-34-1	10-15%	*
Kaolin	1332-58-7	1-5%	*
Water	7732-18-5	5-10%	*
Glycerine	56-81-5	1-5%	*
2-Naphthalenecarboxamide, 3-hydroxy-4-{(2-methoxy-5-nitrophenyl)azo}-N-(3-nitrophenyl)-	6471-49-4	5-35%	*
Pigment Yellow 42	51274-00-1	5-35%	*
Pigment Yellow 3	6486-23-3	5-35%	*
Pigment Orange 16	6505-28-8	5-35%	*
Pigment Red 48:3	15782/05/5	5-35%	*
Pigment Green 7	1328-53-6	5-35%	*
Pigment Blue 15:3	147-14-8	5-35%	*
Pigment White 6	13463-67-7	5-35%	*
Pigment Blue 29	57455-37-5	5-35%	*
Pigment White 21	7727-43-7	5-35%	*
Pigment Brown 7	1309-37-1	5-35%	*
Calcium Oxide	1305-78-8	5-35%	*
Pigment Black 1	13007-86-8	5-35%	*
Pigment Black 9	8021-99-6	5-35%	*

Copper	7440-50-8	5-35%	*
Zinc	7440-66-6	5-35%	*
Mica	12001-26-2	5-35%	*

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

General Advice

Eye Contact Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing. Seek medical attention if irritation persists.

Skin Contact Wash hands and exposed skin with soap and plenty of water. Seek medical attention if irritation persists or it concerned.

Inhalation Move exposed to fresh air. Give artificial respiration if necessary. Seek medical assistance if cough or other symptoms appear.

Ingestion Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconcious person. Seek medical attention if irritation, discomfort, or vomiting persists.

Self-protection of the first aider

Most Important symptoms and effects, both acute and delayed

Most Important symptoms and effects Irritation. Shortness of breath. Headache. Nausea. Dizziness.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

Unsuitable extinguishing media

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Dust can form an explosive mixture in air.

Uniform Fire Code

Hazardous Combustion Products

Explosion Data

Sensitivity to Mechanical Impact

Sensitivity to Static Discharge

Protective equipment and precautions for firefighters

Wear protective eyeware, gloves, and clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Ensure that air-handling systems are operational.

Other information

Environmental Precautions

Environmental Precautions Prevent from reaching drains, sewer, or waterway.

Methods and material for containment and cleaning up

Methods for Containment Always obey local regulations. Containerize for disposal.

Methods for cleaning up Sweep up or vacuum up spillage

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling

chemical materials. Follow proper disposal methods. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid dust formation. May form combustible (explosive) dust-air mixtures (during processing).

Conditions for safe storage, including any incompatibilities

Storage Store in a cool location. Protect from freezing and physical damage. Keep container tightly sealed.

Incompatible products

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium Carbonate 471-34-1	10 mg/m3 (Inhalable particles)	15mg/m3 (Total Dust)	10 mg/m3 (total) 5mg/m3 (resp)
Kaolin 1332-58-7	2 mg/m3 (Inhalable particles)	15mg/m3 (Total) 5 mg/m3 (Resp)	10 mg/m3 (total) 5mg/m3 (resp)
Glycerol 56-81-5	10 mg/m3	15mg/m3	_
Pigment Yellow 42 51274-00-1	10 mg/m3 (total) 5mg/m3 (resp)	10mg/m3 (Total) 5 mg/m3 (Resp)	_
Phthalocyanine Blue 147-14-8	TWA 1 mg/m3	_	IDLH 100 mg/m3 TWA 1mg/m3
Titanium Dioxide 13463-67-7	10 mg/m3 (Inhalable particles)	15mg/m3 (Total Dust)	_
Barium Sulfate 7727-43-7	10 mg/m3	15mg/m3	5mg/m3
Iron Oxide 1309-37-1	TWA 5 mg/m3	(Vacated) TWA: 10mg /m3 (Vacated) TWA: 5 mg/m3 TWA 10 mg/m3 TWA: 15 mg/m3 TWA 5 mg/m3	IDLH: 2500 mg/m3 TWA: 5mg/m3
Calcium Oxide 1305-78-8	2 mg/m3 (Inhalable particles)	_	_
Copper 7440-50-8	0.2 mg/m3 (fume) 1 mg/m3 (dusts and mists)	1 mg/m3 (Total) 0.1 mg/m3 (Fume)	_
Mica 12001-26-2	_	10 mg/m3	_

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

Other Exposure Guidelines

Appropriate engineering controls

Engineering Measures Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses or goggles are appropriate eye protection

Skin and Body Protection Select material impermeable and resistant to the substance.

Respiratory Protection Not required under normal conditions of use.

Hygiene Measures Perform routine housekeeping. Wash hands immediately after handling product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Appearance Solid

Color Multiple Colors

Odor None

Odor Threshold

Property	Values	Remarks Method
pH	5.0 -7 at 180 g/l at 25 deg. Celsius	

Melting/Freezing point	119 - 121 deg. Celsius
Boiling point / boiling range	ND
Flash Point	ND
Evaporation Rate	ND
Fammability (solid, gas)	ND
Flammability Limit in Air	ND
Upper flammability limit	ND
Lower flammability limit	ND
Vapor pressure	ND
Vapor density	ND
Specific Gravity	ND
Water Solubility	ND
Solubility in other solvents	ND
Partition coefficient:	ND
Autoignition temperature	ND
Decomposition temperature	ND
Kinematic viscosity	ND
Dynamic viscosity	ND
Explosive properties	ND
Oxidizing Properties	ND

Other Information

Softening Point	ND
VOC Content (%)	ND
Particle Size	ND
Particle Size Distribution	ND

10. STABILITY AND REACTIVITY

Reactivity

Nonreactive under normal conditions.

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing. May form combustible dust concentrations in air (during processing).

Hazardous Polymerization

Conditions to avoid

incompatible materials. Dust generation.

Incompatible materials

Strong oxidizing agents.

Hazardous Decomposition Products

Carbon dioxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation

Eye Contact

Skin Contact

Ingestion

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Acacia 9001-01-05	>16,000 mg/kg (rat)	–	–
Calcium Carbonate 471-34-1	>6450 mg/kg (rat)	–	–
Glycerol	>12,600 mg/kg (rat)	Mild skin and eye irritation (rabbit)	570 mg/m3/1hr (Rat)
2-Naphthalenecarboxamide, 3-hydroxy-4-{(2-methoxy-5-nitrophenyl)azo}-N-(3-nitrophenyl)- 6471-49-4	>5000 mg/kg (rat)	–	–
Pigment Orange 16 6505-28-8	>2000 mg/kg (rat)	–	–
Pigment Green 7 1328-53-6	>3000 mg/kg (rat)	–	–
Phthalocyanine Blue 147-14-8	>10000 mg/kg (rat)	–	–
Titanium Dioxide 13463-67-7	>10,000 mg/kg (rat)	>10,000 mg/kg (rabbit)	–
Pigment Blue 29 57455-37-5	>10,000 mg/kg (rat)	–	–
Iron Oxide 1309-37-1	>10,000 mg/kg (rat)	–	–
Copper 7440-50-8	>472 mg/kg (rat)	–	–
Zinc 7440-66-6	>630 mg/kg (rat)	–	–

Information on toxicological effects

Symptoms

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Will not occur

Mutagenic Effects

Titanium Dioxide: Hamster lungs DNA inhibition, Hamster ovary Sister chromatid exchange

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name	ACGIH	IARC	NTP	OSHA
Kaolin 1332-58-7	A4			
13463-67-7		2B		

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

A4- Not classifiable for human or animal

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Dept of Labor)

X - Present

Reproductive Toxicity

STOT - single exposure

STOT - repeated exposure

Chronic Toxicity

Target Organ Effects

Aspiration Hazard

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water
Pigment Green 7 1328-53-6	–	48h LC50: > 250 mg/l (Yzias latipes)	–	24h EC50: >500 mg/L
Phthalocyanine Blue 147-14-8	–	48h LC50: > 100 mg/l (Oryzias latipes)	–	–
Titanium Dioxide 13463-67-7	–	96h LC50: > 1000 mg/l (other fish)	–	48h EC50: >1000 mg/L
Pigment Blue 29 57455-37-5	–	96h LC50: > 32000 mg/l (other fish)	–	–
Iron Oxide 1309-37-1	–	96h LC0: > 50000 mg/l (Danio rerio)	–	48h EC50: >100 mg/L
Calcium Oxide 1305-78-8	–	96h LC50: > 1070 mg/l (Cyprinus carpio)	–	–
C.I. Pigment Yellow 3 6486-23-3	72h EC50: > 1 mg/l (Desmodesmus subspicatus)	–	–	48h EC50: >100 mg/L
Zinc 7440-66-6	72h EC50: >.125 mg/l (Pseudokirchneriella subcapita) 96h EC50: >.271 mg/L (Pseudokirchneriella subcapita)	96h LC50: >2.66 mg/L (Pimephales promelas) 96h LC50: >7.8 mg/L (Cyprinus Carpio) 96h LC50: >3.5 mg/L (Lepromis macrochirus) 96h LC50: >.41 mg/L (Oncorhynchus mykiss)	–	48h EC50: >.908 mg/L

Persistance and Degradability

Bioaccumulation

Chemical Name	Log Pow
Phthalocyanine Blue	6.6

Other adverse effects

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods

Contaminated Packaging

14. TRANSPORT INFORMATION

DOT
TDG
MEX
ICAO
IATA
IMDG/IMO
RID
ADR
AND

15. REGULATORY INFORMATION

International Inventories

TSCA (Zinc)
DSL (Zinc)

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight - %	SARA 313 -
Glycerol	56-81-5	1-5%	Chronic
Phthalocyanine Blue	147-14-8	1-5%	1.0
Titanium Dioxide	13463-67-7	1-5%	Acute, Chronic
Barium Sulfate	7727-43-7	1-5%	Chronic
Calcium Oxide	1305-78-8	1-5%	Acute, Chronic
Copper	7440-50-8	1-5%	Acute, Chronic, Fire
Zinc	7440-66-6	1-5%	1.0
Mica	12001-26-2	1-5%	Acute, Chronic

SARA 311/312 Hazard Categories

Acute Health Hazard
Chronic Health Hazard
Fire Hazard
Sudden release of pressure hazard
Reactive Hazard

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR

Chemical Name	CWA -	CWA - Toxic	CWA - Priority Pollutants	CWA -
Phthalocyanine Blue		x		
Zinc		x	x	

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Ammendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to release of this material.

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Minnesota
Kaolin 1332-58-7		X	X	X	X
Phthalocyanine Blue 147-14-8	X		X		
Iron Oxide 1309-37-1	X	X	X	X	
Pigment Black 9 8021-99-6	X		X		
Zinc 7440-66-6	X	X	X	X	

International Regulations

Mexico
National Occupational exposure limits

Component	Carcinogen Status	Exposure Limits

Mexico - Occupational Exposure Limits - Carcinogens

Canada
WHMIS Hazard Class D2A (Kaolin) (Titanium Dioxide) D2B (Calcium Oxide) (Copper)
D2A - Very toxic materials
D2B - Toxic Materials

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Physical and Chemical Hazar**
HMIS	**Health Hazards**	**Flammability**	**Physical Hazard**	**Personal Protec**

Chronic Hazard Star Legend * = Chronic Health Hazard

Prepared By
Revision Date
Revision Note
Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet