

**SAFETY DATA SHEET**

Issuing Date	6/1/2015	Revision Date	6/1/2015	Revision Number	1
--------------	----------	---------------	----------	-----------------	---

**1. IDENTIFICATION****Product Identifier****Product Name**

NNC12, NNC18

**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 Inc.

**Supplier Address**

1805 Rollins Road

Burlingame, CA

94010

**Supplier Phone Number**

650 737 8888

**Supplier Email**[yasutomo490@gmail.com](mailto:yasutomo490@gmail.com)**Emergency telephone number**

650 737 8888

**2. HAZARDS IDENTIFICATION****Classification**

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

Carcinogenicity

Category 1A

**GHS Label elements, including precautionary statements****Emergency Overview****Signal word**

Danger

**Hazard Statements**

May cause cancer

**Appearance**

Multiple Colors

**Physical State**

Solid

**Odor**

Characteristic

**Precautionary Statements - Prevention**

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

Use personal protective equipment as required

**Precautionary Statements - Response**

None.

**Precautionary Statements - Storage**

None.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazard not otherwise classified (HNOC)**

NA

**Unknown Toxicity**

NA

**Other information**

No information available

**Interactions with Other Chemicals**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%	Trade Secret
Titanium Dioxide	13463-67-7	5-10%	*
C.I. Pigment Yellow 3	6486-23-3	1-5%	*
Phthalocyanine green	1328-53-6	1-5%	*
Phthalocyanine blue	147-14-8	1-5%	*
C.I. Pigment Violet 23	6358-30-1	1-5%	*
Pigment Orange 16	6505-28-8	1-5%	*
Pigment Red 48:2	7023-61-2	1-5%	*
Iron Oxide Red	1309-37-1	1-5%	*
Pigment Yellow 42	20344-49-4	1-5%	*
Pigment Blue 29	57455-37-5	1-5%	*

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

**4. FIRST AID MEASURES****First aid measures****Eye Contact** Rinse thoroughly with plenty of water. If symptoms persist, call a physician.**Skin Contact** Wash with soap and water.**Inhalation** Remove to fresh air.**Ingestion** Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.**Most Important symptoms and effects, both acute and delayed****Most Important symptoms and effects** No information available.**Indication of any immediate medical attention and special treatment needed****Notes to Physician** Treat symptomatically**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**Unsuitable extinguishing media**

CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising from the Chemical**

No information available

**Hazardous Combustion Products**

Carbon oxides.

**Explosion Data****Sensitivity to Mechanical Impact** No.**Sensitivity to Static Discharge** No.**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid breathing dust.

**Other information** Refer to protective measures listed in Sections 7 and 8

### **Environmental Precautions**

**Environmental Precautions** Refer to protective measures listed in Sections 7 and 8.

### **Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers, without creating dust. After cleaning, flush away traces with water.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

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

**Storage** Keep container tightly closed in a dry and well ventilated place.

**Incompatible products** None known based on information supplied.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control parameters**

### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium Dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>
Iron Oxide Red 1309-37-1	TWA: 5mg/m <sup>3</sup> Cu respirable fraction	PEL: 10 mg/m <sup>3</sup> Fume	TWA: 5 mg/m <sup>3</sup> Cu dust and fume
Phthalocyanine green 1328-53-6	TWA: 1mg/m <sup>3</sup> Cu dust and mist	–	IDLH: 100mg/m <sup>3</sup> Cu dust and mist TWA 1 mg/m <sup>3</sup> Cu dust and mist
Phthalocyanine blue 147-14-8	TWA: 1mg/m <sup>3</sup> Cu dust and mist	–	IDLH: 100mg/m <sup>3</sup> Cu dust and mist TWA 1 mg/m <sup>3</sup> Cu dust and mist

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**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

### **Appropriate engineering controls**

**Engineering Measures** Ventilation systems

### **Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** No special protective equipment required.

**Skin and Body Protection** Wear protective gloves and protective clothing.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Use appropriate certified respirators.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State** Solid

**Appearance** Multiple Colors

**Color** No information available

**Odor** Characteristic

**Odor Threshold** No information available

### **Property**

**pH** No data available

**Melting/Freezing point** No data available

**Boiling point / boiling range** No data available

**Flash Point** No data available

### **Remarks Method**

None known

None known

None known

None known

<b>Evaporation Rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit</b>	No data available	
<b>Lower flammability limit</b>	No data available	
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Specific Gravity</b>	No data available	None known
<b>Water Solubility</b>	Soluble in water	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient:</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Explosive properties</b>	No data available	
<b>Oxidizing Properties</b>	No data available	

**Other Information**

<b>Softening Point</b>	No data available
<b>VOC Content (%)</b>	No data available
<b>Particle Size</b>	No data available
<b>Particle Size Distribution</b>	

**10. STABILITY AND REACTIVITY****Reactivity**

No data available

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

Harmful when dust.

**Incompatible materials**

Strong oxidizing agents.

**Hazardous Decomposition Products**

Carbon oxides.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	Specific test data for the substance or mixture is not available.
<b>Eye Contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin Contact</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Titanium Dioxide 13463-67-7	> 10000 mg/kg (Rat)	—	6.82 mg/l, Rat
Phthalocyanine green 1328-53-6	> 3000 mg/kg (Rat)	—	—
C.I. Pigment Violet 23 6358-30-1	> 2000 mg/kg (Rat)	—	—
C.I. Pigment Yellow 3 6486-23-3	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	—

**Information on toxicological effects****Symptoms** No information available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Sensitization** No information available.**Mutagenic Effects** No information available.**Carcinogenicity**

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

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium Dioxide 13463-67-7	—	Group 2B	—	x

**ACGIH (American Conference of Governmental Industrial Hygienists)***A2 - Suspected Human Carcinogen**A3 - Animal Carcinogen***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** No information available**STOT - single exposure** No information available**STOT - repeated exposure** No information available**Chronic Toxicity** No information available**Target Organ Effects** No information available**Aspiration Hazard** No information available**Numerical measures of toxicity Product Information****The following values are calculated based on chapter 3.1 of the GHS document****ATEmix (oral)**

No information available

**ATEmix (inhalation-dust/mist)**

No information available

**ATEmix (inhalation-vapor)**

No information available

**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 Flea)
Phthalocyanine green 1328-53-6		96h LC50: = 752.4 mg/L (Lepomis macrochirus)	EC50 > 10000 mg/L 30 min	24h EC50: >500 mg/L
Phthalocyanine blue 147-14-8		48h LC50: > 100 mg/L (Oryzias latipes)		
Titanium Dioxide 13463-67-7	72h EC50: = 61 mg/l (Pseudokirchneriella subcapitata)	96h LC50: > 1000 mg/L (Pimephales promelas)		48h EC50: >1000 mg/L
C.I. Pigment Violet 23 6358-30-1	72h EC50: > 100 mg/l (Scenedesmus subspicatus)	96h LC50: > 100 mg/L (Danio Rerio)		
C.I. Pigment Yellow 3 6486-23-3	72h EC50: > 1 mg/l (Desmodesmus subspicatus)			48h EC50: >100 mg/L

**Persistence and Degradability**

No information available.

**Bioaccumulation**

Chemical Name	Log Pow
Phthalocyanine blue 147-14-8	6.6

**Other adverse effects**

No information available.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

**Disposal methods** Dispose of contents/containers in accordance with local regulations.

**Contaminated Packaging**

Do not reuse empty containers.

**California Hazardous Waste Codes**

This product contains one or more substances that are listed with the State of California as a hazardous waste

Chemical Name	California Hazardous Waste
Phthalocyanine green 1328-53-6	Toxic
Phthalocyanine blue 147-14-8	Toxic

**14. TRANSPORT INFORMATION**

<b>DOT</b>	Not Regulated
<b>TDG</b>	Not Regulated
<b>MEX</b>	Not Regulated
<b>ICAO</b>	Not Regulated
<b>IATA</b>	Not Regulated
<b>IMDG/IMO</b>	Not Regulated
<b>RID</b>	Not Regulated
<b>ADR</b>	Not Regulated
<b>AND</b>	Not Regulated

**15. REGULATORY INFORMATION****International Inventories**

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL

**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

Chemical Name	CAS No	Weight - %	SARA 313 - Threshold
Phthalocyanine green	1328-53-6	1-5%	1.0
Phthalocyanine blue	147-14-8	1-5%	1.0

**SARA 311/312 Hazard Categories**

Acute Health Hazard	No
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden release of pressure hazard	No

**Reactive Hazard**

No

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phthalocyanine green		X		
Phthalocyanine blue		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 Amendments 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	Illinois
Iron Oxide Red	X	X	X		
Titanium Dioxide	X	X	X		

**International Regulations**

Mexico

National Occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Titanium Dioxide 13463-67-7 (5-10)		Mexico: TWA = 10 mg/m3 Mexico: STEL = 20 mg/m3

*Mexico - Occupational Exposure Limits - Carcinogens*

Canada

WHMIS Hazard Class

D2A - Very toxic materials

**16. OTHER INFORMATION**

NFPA	Health Hazards	1	Flammability	0	Instability	0	Physical and Chemical Hazards - Personal Protection
HMIS	Health Hazards	1*	Flammability	0	Physical Hazard	0	X

**Chronic Hazard Star Legend** \* = Chronic Health Hazard

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**