

#### **Material Safety Data Sheet**

Prepared in accordance with ISO 11014-1/ANSI standard Z400.1-2004

Print Date May-07-2012

Revision Date May-07-2012

## PRODUCT AND COMPANY IDENTIFICATION

Product code **Product name Product category**  59152 **Peacock Blue** 

59000 Series Enamel Plus Gloss Screen Ink

Manufacturer or supplier's details

**UNITED STATES** Nazdar Company 8501 Hedge Lane Terrace Shawnee, KS 66227 Tel: 1-913-422-1888 Tel: 1-800-677-4657 Fax: 1-913-422-2294

UNITED KINGDOM Nazdar Limited 7 Barton Road Heaton Mersey Industrial Estate Stockport, Cheshire SK4 3EG Tel: +44 161 442 2111

**Emergency Telephone Number** Chemtrec: 1-800-424-9300 USA: Outside USA: Chemtrec: 1-703-527-3887

Website: www.nazdar.com MSDS Information: 1-913-422-1888 ext 2305 MSDS Contact: Regulatory Compliance email: regcomp@nazdar.com

## 2. HAZARDS IDENTIFICATION

This product is a preparation. Health hazard information is based on its components.

**Appearance** 

Flammable Properties

Colored liquid Combustible liquid and vapor.

**Emergency Overview** 

Aspiration hazard. Harmful: may cause lung damage if swallowed. Irritant. May cause

drowsiness and dizziness.

May cause eye irritation. Eyes

Skin May cause skin irritation and/or dermatitis.

May cause irritation of respiratory tract. Inhalation of high vapour concentrations may Inhalation

cause symptoms like headache, dizziness, tiredness, nausea and vomiting,

Ingestion Harmful if swallowed. Potential for aspiration if swallowed. Risk of serious damage to the

lungs (by aspiration).

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Stoddard solvent	8052-41-3	10 - 30
Barium sulfate	7727-43-7	10 - 30
Titanium dioxide	13463-67-7	5 - 10
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	1 - 5
Naphtha (petroleum), heavy aromatic	64742-94-5	1 - 5
Copper Phthalocyanine Compound	Trade Secret	1 - 5
Copper Phthalocyanine Compound	Trade Secret	1 - 5
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - 5
Ethyl benzene (contaminant)	100-41-4	< 0.5
Naphthalene (contaminant)	91-20-3	< 0.5
Crystalline silica (cristobalite)	14464-46-1	< 0.5

<sup>·</sup> Component names which have the word (contaminant) are constituents contained in Aromatic Hydrocarbon ingredients and are an integral part of the ingredient and cannot be separated. The percentage listed for the contaminant is as contained in the Hydrocarbon ingredient. (Example: 100% Hydrocarbon, 10% Contaminant A, 3% Contaminant B)

## 4. FIRST AID MEASURES

**Eye Contact** 

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

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**Skin Contact** Wash off immediately with soap and plenty of water. Use a mild soap if available. Rinse

immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. If

irritation develops, get medical attention.

Inhalation If breathed in, move person into fresh air. If breathing is irregular or stopped, administer

artificial respiration. Get medical attention immediately.

Ingestion If swallowed, DO NOT induce vomiting. Call a physician or Poison Control Centre

immediately. Never give anything by mouth to an unconscious person.

## 5. FIRE-FIGHTING MEASURES

Flammable Properties Combustible liquid and vapor.

Suitable Extinguishing Media Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures

that are appropriate to local circumstances and the surrounding environment.

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. Keep away from fire, sparks and heated surfaces. Cool containers / tanks with water spray. Fire or intense heat may cause violent

rupture of packages.

**Specific Hazards Arising from the** 

Chemical

Thermal decomposition can lead to release of irritating gases and vapours. Burning produces obnoxious and toxic fumes.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Remove all sources of ignition. Ventilate the area. Avoid breathing dust or vapor. Avoid

contact with skin, eyes and clothing. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

Methods for Cleaning Up Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13). Do not use sparking tools.

**Environmental Precautions** Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If

the product contaminates rivers and lakes or drains inform respective authorities.

## 7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove and

wash contaminated clothing before re-use. Discard contaminated shoes. When using do not smoke. Do not take internally. Harmful or fatal if swallowed. Take notice of the

directions of use on the label.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container

closed when not in use. Keep out of the reach of children. Keep away from heat and

sources of ignition.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Ontario TWAEV	Mexico OFL (TWA)

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				T	T
Stoddard solvent	TWA: 100 ppm	TWA: 100 ppm TWA: 525 mg/m³ TWA: 500 ppm TWA: 2900 mg/m³	20000 mg/m <sup>3</sup>	TWA: 525 mg/m <sup>3</sup>	TWA/LMPE-PPT: 100 ppm TWA/LMPE-PPT: 523 mg/m³ STEL/LMPE-CT: 200 ppm STEL/LMPE-CT: 1050 mg/m³
Barium sulfate	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m³ (total dust) TWA: 5 mg/m³ (respirable fraction) TWA: 15 mg/m³ (total dust)		TWA: 10 mg/m³ (total dust)	
Titanium dioxide	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m³ (total dust) TWA: 15 mg/m³ (total dust)	5000 mg/m <sup>3</sup>	TWA: 10 mg/m³ (total dust)	TWA/LMPE-PPT: 10 mg/m³ (as Ti) STEL/LMPE-CT: 20 mg/m³ (as Ti)
Solvent naphtha (petroleum), medium aliphatic				TWA: 525 mg/m <sup>3</sup>	
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm TWA: 435 mg/m³ STEL: 150 ppm STEL: 655 mg/m³		TWA: 100 ppm STEL: 150 ppm	TWA/LMPE-PPT: 100 ppm TWA/LMPE-PPT: 435 mg/m³ STEL/LMPE-CT: 150 ppm STEL/LMPE-CT: 655 mg/m³
Ethyl benzene (contaminant)	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m³ STEL: 125 ppm STEL: 545 mg/m³	800 ppm (10% LEL)	TWA: 100 ppm STEL: 125 ppm	TWA/LMPE-PPT: 100 ppm TWA/LMPE-PPT: 435 mg/m³ STEL/LMPE-CT: 125 ppm STEL/LMPE-CT: 545 mg/m³
Naphthalene (contaminant)	TWA: 10 ppm STEL: 15 ppm Skin	TWA: 10 ppm TWA: 50 mg/m³ STEL: 15 ppm STEL: 75 mg/m³	250 ppm	TWA: 10 ppm STEL: 15 ppm Skin	TWA/LMPE-PPT: 10 ppm TWA/LMPE-PPT: 50 mg/m³ STEL/LMPE-CT: 15 ppm STEL/LMPE-CT: 75 mg/m³
Crystalline silica (cristobalite)	TWA: 0.025 mg/m <sup>3</sup> (respirable fraction)	TWA: 0.05 mg/m <sup>3</sup> (respirable dust)	25 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup> (respirable)	TWA/LMPE-PPT: 0.05 mg/m³ (respirable fraction)

**Engineering Measures** 

**Personal Protective Equipment** 

**Respiratory Protection** 

**Eye Protection** 

**Skin Protection** 

Use ventilation adequate to keep exposures below recommended exposure limits. See MSDS. In case of insufficient ventilation, wear suitable respiratory equipment.

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Respirator with a vapour filter.

Ensure that eyewash stations and safety showers are close to the workstation location. Avoid contact with eyes. Safety glasses with side-shields. Goggles. Face-shield. Wear protective gloves/clothing. Solvent-resistant apron and boots.

**General Hygiene Considerations** 

Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking, or smoking. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Odor **Boiling point/Boiling Range** Freezing Point/Range **Evaporation Rate** 

Colored liquid . Characteristic No information available >149 °C / >300 °F No information available No information available

**Physical State Odor Threshold Autoignition Temperature** Melting Point/Range Solubility **Partition Coefficient** (n-octanol/water)

No information available No information available No information available No information available No information available

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Heavier than air **Vapour Pressure** No information available **Vapour Density** 

Flammability (solid, gas) No information available

Flammability Limits in Air

Upper No information available Lower No information available **Photochemically Reactive** 

Flash Point 46 °C / 115 °F Method Setaflash closed cup

Weight Per Gallon (lbs/gal) 10.15 Specific Gravity 1.22

VOC by weight % 31.48 VOC by volume % No information available

VOC grams/liter (less water) 382.71 VOC lbs/gal (less water) 3.19

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal conditions.

**Conditions to Avoid** Heat, flames and sparks.

**Incompatible Products** Strong acids. Strong bases. Strong oxidizing agents. Reducing agents.

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapours. Carbon dioxide

(CO2). Carbon monoxide.

Possibility of Hazardous Reactions None under normal processing.

#### 11. TOXICOLOGICAL INFORMATION

#### **Acute Toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide	>10000 mg/kg (Rat)		
Solvent naphtha (petroleum), medium aliphatic	>5000 mg/kg(Rat)	3000 mg/kg (Rabbit)	>5.28 mg/L (Rat)4 h
Naphtha (petroleum), heavy aromatic	>5000 mg/kg(Rat)	>2000 mg/kg (Rabbit)	>590 mg/m³ (Rat)4 h
Xylenes (o-, m-, p- isomers)	4300 mg/kg (Rat)	>1700 mg/kg (Rabbit)	5000 ppm (Rat) 4 h 47635 mg/L (Rat) 4 h
Ethyl benzene (contaminant)	3500 mg/kg (Rat)	15354 mg/kg (Rabbit)	17.2 mg/L (Rat) 4 h
Naphthalene (contaminant)	490 mg/kg (Rat)	>2500 mg/kg ( Rat ) >20 g/kg ( Rabbit )	>340 mg/m³ (Rat) 1 h

### **Chronic Toxicity**

Component	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		X
Ethyl benzene (contaminant)	A3	Group 2B		X
Naphthalene (contaminant)		Group 2B	Reasonably Anticipated	×
Crystalline silica (cristobalite)		Group 1		×

ACGIH: (American Conference of Governmental Industrial Hygienists)

IARC: (International Agency for Research on Cancer)

NTP: (National Toxicity Program)

OSHA: (Occupational Safety & Health Administration)

A3 - Animal Carcinogen Group 1 - Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans Reasonably Anticipated to be a Human Carcinogen X - Present

Sensitisation No information available **Mutagenic Effects** No information available

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**Reproductive Effects** Developmental hazard Teratogenicity **Chronic Effects** 

No information available No information available No information available

Exposure to component solvent vapour concentrations in excess of the stated occupational

exposure limit may result in adverse health effect, such as mucous membrane and

respiratory system irritation and adverse effect on kidney, liver and central nervous system.

**Target Organ Effects** Central nervous system, Eyes, Kidney, Liver, Respiratory system, Skin.

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

We have no quantitative data concerning the ecological effects of this product. Should not be released into the environment.

Component	Algae	Fish	Water Flea
Solvent naphtha (petroleum),	96h EC50 Pseudokirchneriella	96h LC50 Pimephales promelas:	48h EC50 Daphnia magna: >100 mg/L
medium aliphatic	subcapitata: 450 mg/L	800 mg/L [static]	
Naphtha (petroleum), heavy		96h LC50 Lepomis macrochirus:	
aromatic		1740 mg/L [static]	
		96h LC50 Pimephales promelas: 19	
		mg/L [static]	
		96h LC50 Pimephales promelas: 41	
		mg/L	
		96h LC50 Pimephales promelas: 45	
		mg/L [flow-through]	
Copper Phthalocyanine		48h LC50 Oryzias latipes: >100	
Compound		mg/L [static]	
Xylenes (o-, m-, p- isomers)		96h LC50 Lepomis macrochirus:	48h LC50 Gammarus lacustris: 0.6 mg/L
		13.1 - 16.5 mg/L [flow-through]	48h EC50 water flea: 3.82 mg/L
		96h LC50 Oncorhynchus mykiss:	
		13.5 - 17.3 mg/L	
		96h LC50 Oncorhynchus mykiss:	
		2.661 - 4.093 mg/L [static]	
		96h LC50 Pimephales promelas: 23.53 - 29.97 mg/L [static]	
		96h LC50 Poecilia reticulata: 30.26 -	
		40.75 mg/L [static]	
		96h LC50 Lepomis macrochirus:	
		7.711 - 9.591 mg/L [static]	
		96h LC50 Pimephales promelas:	
		13.4 mg/L [flow-through]	
		96h LC50 Lepomis macrochirus: 19	
		mg/L	
		96h LC50 Cyprinus carpio: 780	
		mg/L [semi-static]	
		96h LC50 Cyprinus carpio: >780	
		mg/L	
Ethyl benzene (contaminant)	96h EC50 Pseudokirchneriella	96h LC50 Oncorhynchus mykiss:	48h EC50 Daphnia magna: 1.8 - 2.4
	subcapitata: 1.7 - 7.6 mg/L [static]	11.0 - 18.0 mg/L [static]	mg/L
	72h EC50 Pseudokirchneriella	96h LC50 Pimephales promelas:	_
	subcapitata: 2.6 - 11.3 mg/L [static]	7.55 - 11 mg/L [flow-through]	
	72h EC50 Pseudokirchneriella	96h LC50 Pimephales promelas:	
	subcapitata: 4.6 mg/L	9.1 - 15.6 mg/L [static]	
	96h EC50 Pseudokirchneriella	96h LC50 Lepomis macrochirus: 32	
	subcapitata: >438 mg/L	mg/L [static]	
		96h LC50 Oncorhynchus mykiss:	
		4.2 mg/L [semi-static]	
		96h LC50 Poecilia reticulata: 9.6	
		mg/L [static]	

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Naphthalene (contaminant)	72h EC50 Skeletonema costatum:	96h LC50 Oncorhynchus mykiss:	48h EC50 Daphnia magna: 1.09 - 3.4
reaprilitatione (contaminant)	0.4 mg/L	0.91 - 2.82 mg/L [static]	mg/L [static]
	0.4 mg/L		
		96h LC50 Pimephales promelas:	48h EC50 Daphnia magna: 1.96 mg/L
		5.74 - 6.44 mg/L [flow-through]	[Flow through]
		96h LC50 Oncorhynchus mykiss:	48h LC50 Daphnia magna: 2.16 mg/L
		1.6 mg/L [flow-through]	
		96h LC50 Pimephales promelas:	
		1.99 mg/L [static]	
		96h LC50 Lepomis macrochirus:	
		31.0265 mg/L [static]	

Persistence and Degradability Bioaccumulation

No information available No information available

**Mobility in Environmental Media** No information available

Component	log Pow
Naphtha (petroleum), heavy aromatic	4.5
Copper Phthalocyanine Compound	6.6
Xylenes (o-, m-, p- isomers)	2.96
Ethyl benzene (contaminant)	3.118
Naphthalene (contaminant)	3.3

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** 

Dispose of contents/container in accordance with local regulation.

**Contaminated Packaging** 

Empty containers should be taken to an approved waste handling site for recycling or disposal.

## TRANSPORT INFORMATION

### DOT

UN1210, Printing Ink, 3, III

In the U.S. and Canada, this material may be reclassified as a combustible liquid and is not regulated, via surface transportation, in containers less than 119 gallons or 450 liters [per 49 CFR 173.150 (f)] [per Transportation of Dangerous Goods Regulations/Clear Language Part 1.33].

#### ICAO/IATA

UN1210, Printing Ink, 3, III

#### IMDG/IMO

UN1210, Printing Ink, 3, III

## 15. REGULATORY INFORMATION

## **International Inventories**

Listed on TSCA. For further information, please contact: Manufacturer, importer, supplier

## **U.S. Federal Regulations**

## **SARA 313**

The following components are subject to reporting levels established by SARA Title III, Section 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Ethyl benzene (contaminant)	100-41-4	< 0.5	0.1
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - 5	1.0
Naphthalene (contaminant)	91-20-3	< 0.5	0.1

## Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

Component	CAS-No	Weight %
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - 5

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## **U.S. State Regulations**

Component	Massachusetts Right To Know	Minnesota Right To Know	New Jersey Right To Know	Pennsylvania Right To Know
Stoddard solvent	X	×	×	×
Barium sulfate	×	×	×	Х
Titanium dioxide	×	×	×	Х
Solvent naphtha (petroleum), medium aliphatic	Not Listed	Not Listed	×	Not Listed
Copper Phthalocyanine Compound	Not Listed	Not Listed	×	×
Copper Phthalocyanine Compound	Not Listed	Not Listed	×	Х
Xylenes (o-, m-, p- isomers)	×	×	×	Х
Ethyl benzene (contaminant)	X	×	×	X
Naphthalene (contaminant)	X	×	×	X
Crystalline silica (cristobalite)	×	X	×	Х

## California Prop. 65

WARNING! This product contains a chemical known in the State of California to cause cancer and / or WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm

Component	CAS-No	Weight %
Ethyl benzene (contaminant)	100-41-4	< 0.5
Titanium dioxide	13463-67-7	5 - 10
Naphthalene (contaminant)	91-20-3	< 0.5

## <u>Canada</u>

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required

WHMIS Classifications of Components
B3,D2B
Uncontrolled product according to WHMIS classification criteria
D2A
B3
Uncontrolled product according to WHMIS classification criteria
B2,D2A,D2B
B2,D2A,D2B
B4,D2A
D2A

Component	NPRI - National Pollutant Release Inventory
Stoddard solvent	Part 5 Substance
	Part 5, Other Groups and Mixtures
Solvent naphtha (petroleum), medium aliphatic	Part 5 Substance
	Part 5, Other Groups and Mixtures
Naphtha (petroleum), heavy aromatic	Part 5 Substance
	Part 5, Other Groups and Mixtures
Copper Phthalocyanine Compound	Part 1, Group 1 Substance
Copper Phthalocyanine Compound	Part 1, Group 1 Substance
Xylenes (o-, m-, p- isomers)	Part 1, Group 1 Substance
	Part 5 Substance
	Part 5, Isomer Groups
Ethyl benzene (contaminant)	Part 4 Substance
	Part 1, Group 1 Substance
Naphthalene (contaminant)	Part 1. Group 1 Substance

# Regulation (EC) No. 1907/2006 (REACH), Article 57 None known

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HMIS: Health Flammability Reactivity PPE

## 16. OTHER INFORMATION

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Revision Note New MSDS format

#### **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 MSDS** 

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