



## Material Safety Data Sheet

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

Print Date Apr-22-2009

Revision Date Apr-22-2009

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product code** 59613  
**Product name** Transparent Green  
**Product description** 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, Chesire SK4 3EG  
Tel: +44 161 442 2111

#### Emergency Telephone Number

USA: Chemtrec: 1-800-424-9300  
Outside USA: Chemtrec: 1-703-527-3887

Website: [www.nazdar.com](http://www.nazdar.com)  
MSDS Information: 1-913-422-1888 ext 2305  
MSDS Contact: Regulatory Compliance  
email: [regcomp@nazdar.com](mailto:regcomp@nazdar.com)

### 2. HAZARDS IDENTIFICATION

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

**Appearance** Viscous liquid  
**Flammable Properties** Combustible liquid and vapor.  
**Emergency Overview** Aspiration hazard. Harmful: may cause lung damage if swallowed.

**Eyes** May cause eye irritation.  
**Skin** May cause skin irritation and/or dermatitis.  
**Inhalation** Inhalation of high vapour concentrations may 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 %
Petroleum distillates, hydrotreated light	64742-47-8	30 - 60
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	1 - 5
Copper Phthalocyanine Compound	Trade Secret	1 - 5
Ethyl benzene (contaminant)	100-41-4	< 0.5
Cobalt bis(2-ethylhexanoate)	136-52-7	< 0.5

- 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

**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.

**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.

**Inhalation** Move to fresh air. 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 (CO<sub>2</sub>). 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. Keep container tightly closed. 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. Heat, flames and sparks. 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** Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. 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. Take notice of labels and material safety data sheets for the working chemicals. Do not take internally. Harmful or fatal if swallowed.

**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. Take notice of the directions of use on the label.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines

Component	Weight %	ACGIH TLV	OSHA PEL	Ontario TWAEV
Solvent naphtha (petroleum), medium aliphatic	1 - 5			TWA: 525 mg/m <sup>3</sup>
Ethyl benzene (contaminant)	< 0.5	TWA: 100 ppm STEL: 125 ppm	TWA: 435 mg/m <sup>3</sup> TWA: 100 ppm STEL: 125 ppm STEL: 545 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup> STEL: 125 ppm STEL: 540 mg/m <sup>3</sup>

Component	Weight %	NIOSH IDLH	Mexico OEL (TWA)
Copper Phthalocyanine Compound	1 - 5	100 mg/m <sup>3</sup>	

Component	Weight %	NIOSH IDLH	Mexico OEL (TWA)
Ethyl benzene (contaminant)	< 0.5	800 ppm 10% LEL	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup> STEL: 545 mg/m <sup>3</sup> STEL: 125 ppm

NIOSH IDLH: Immediately Dangerous to Life or Health

#### Engineering Measures

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

#### Personal Protective Equipment

##### Respiratory Protection

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.

##### Eye Protection

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.

##### Skin Protection

Wear protective gloves/clothing. Solvent-resistant apron and boots.

#### General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands before eating, drinking, or smoking. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Viscous liquid	<b>Physical State</b>	Liquid
<b>Odor</b>	Characteristic	<b>Odor Threshold</b>	No information available
<b>pH</b>	No information available	<b>Autoignition Temperature</b>	No information available
<b>Boiling point/Boiling Range</b>	>149°C / >300°F	<b>Melting Point/Range</b>	No information available
<b>Freezing Point/Range</b>	No information available	<b>Solubility</b>	No information available
<b>Evaporation Rate</b>	No information available	<b>Partition Coefficient (n-octanol/water)</b>	No information available
<b>Vapour Pressure</b>	No information available	<b>Vapour Density</b>	Heavier than air
<b>Flammability (solid, gas)</b>	No information available	<b>Flash Point</b>	46°C / 115°F
<b>Flammability Limits in Air</b>		<b>Method</b>	Setaflash closed cup
<b>Upper</b>	No information available	<b>Photochemically Reactive</b>	No
<b>Lower</b>	No information available		
<b>Weight Per Gallon (lbs/gal)</b>	7.965	<b>Specific Gravity</b>	0.96
<b>VOC by weight</b>	41.304	<b>VOC by volume</b>	No information available
<b>VOC lbs/gal</b>	3.29	<b>VOC grams/liter</b>	394.211

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Heat, flames and sparks.
<b>Incompatible Products</b>	Strong acids. Strong bases. Strong oxidizing agents. Reducing agents.
<b>Hazardous Decomposition Products</b>	Thermal decomposition can lead to release of irritating gases and vapours. Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, hydrotreated light	5000 mg/kg ( Rat )	2000 mg/kg ( Rabbit )	5.2 mg/L ( Rat ) 4 h
Solvent naphtha (petroleum), medium aliphatic	5000 mg/kg ( Rat )	3000 mg/kg ( Rabbit )	5.28 mg/L ( Rat ) 4 h
Copper Phthalocyanine Compound	3000 mg/kg ( Rat )		
Ethyl benzene (contaminant)	3500 mg/kg ( Rat )	15354 mg/kg ( Rabbit )	17.2 mg/L ( Rat ) 4 h

### Chronic Toxicity

Component	ACGIH	IARC	NTP	OSHA
Ethyl benzene (contaminant)	A3	Group 2B		X

Legend:

ACGIH: (American Conference of Governmental Industrial Hygienists)  
 IARC: (International Agency for Research on Cancer)  
 OSHA: (Occupational Safety & Health Administration)

A3 - Animal Carcinogen  
 Group 2B - Possibly Carcinogenic to Humans  
 X - Present

<b>Sensitisation</b>	No information available
<b>Mutagenic Effects</b>	No information available
<b>Reproductive Effects</b>	No information available
<b>Developmental Effects</b>	No information available
<b>Teratogenicity</b>	No information available
<b>Chronic Effects</b>	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.
<b>Target Organ Effects</b>	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	Freshwater Algae	Freshwater Fish	Water Flea
Petroleum distillates, hydrotreated light		96 Hr LC50 Pimephales promelas: 45 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 1740 mg/L [static]	96 Hr LC50 Den-dronereides heteropoda: 4720 mg/L
Solvent naphtha (petroleum), medium aliphatic	96 Hr EC50 Selastrum capricornutum: 450 mg/L	96 Hr LC50 Pimephales promelas: 800 mg/L [static]	48 Hr EC50 Daphnia magna: >100 mg/L
Copper Phthalocyanine Compound		96 Hr LC50 Lepomis macrochirus: 752.4 mg/L [static]	24 Hr EC50 Daphnia magna Straus: >500 mg/L

Component	Freshwater Algae	Freshwater Fish	Water Flea
Ethyl benzene (contaminant)	72 Hr EC50 Selenastrum capricornutum: 4.6 mg/L; 96 Hr EC50 Selenastrum capricornutum: >438 mg/L	96 Hr LC50 Oncorhynchus mykiss: 14.0 mg/L [static]; 96 Hr LC50 Pimephales promelas: 9.09 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 150.0 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.2 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 48.5 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 9.6 mg/L [static]	48 Hr EC50 Daphnia magna: 1.8-2.4 mg/L

**Persistence and Degradability** No information available  
**Bioaccumulation** No information available  
**Mobility in Environmental Media** No information available

### 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.

### 14. 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** 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

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Ethyl benzene (contaminant)	100-41-4	< 0.5	0.1

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**  
 This product does not contain any HAPs.

**U.S. State Regulations****California Prop. 65**

WARNING! This product contains a chemical known in the State of California to cause cancer. 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
Toluene	108-88-3	< 0.0001
Benzene	71-43-2	< 0.0001
Ethyl alcohol	64-17-5	< 0.01

**State Right-to-Know**

Component	Minnesota	Florida	New Jersey	Pennsylvania	Massachusetts	Rhode Island
Petroleum distillates, hydrotreated light	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Solvent naphtha (petroleum), medium aliphatic	Not Listed	Not Listed	X	Not Listed	Not Listed	Not Listed
Copper Phthalocyanine Compound	Not Listed	Not Listed	X	X	Not Listed	Not Listed
Ethyl benzene (contaminant)	Not Listed	Not Listed	X	X	X	X
Cobalt bis(2-ethylhexanoate)	Not Listed	Not Listed	X	X	Not Listed	Not Listed

**Canada**

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

Component	WHMIS Classifications of Components
Solvent naphtha (petroleum), medium aliphatic	B3
Ethyl benzene (contaminant)	B2, D2A, D2B

Component	NPRI - National Pollutant Release Inventory
Petroleum distillates, hydrotreated light	Part 5 Substance
Solvent naphtha (petroleum), medium aliphatic	Part 5 Substance
Copper Phthalocyanine Compound	Part 1, Group 1 Substance
Ethyl benzene (contaminant)	Part 1, Group 1 Substance Part 4 Substance
Cobalt bis(2-ethylhexanoate)	Part 1, Group 1 Substance

**REACH: Substances of Very High Concern (SVHC): Article 57 of Regulation (EC) No 1907/2006**

Does NOT contain a listed substance

<b>HMIS:</b>	<b>Health</b>	<b>Flammability</b>	<b>Reactivity</b>	<b>PPE</b>
	1*	2	0	X

**16. OTHER INFORMATION**

Revision Date Apr-22-2009

Revision Summary 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**