

## **Material Safety Data Sheet**

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

Print Date Mar-08-2013

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# 1. PRODUCT AND COMPANY IDENTIFICATION

Product code **Product name Product category**  5521 **Rich Brown** 

5500 Series Flat Poster 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 **Barton Road Heaton Mersey** 

Stockport, England 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 **Emergency Overview** 

Colored liquid

FLAMMABLE LIQUID AND VAPOR.

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

drowsiness and dizziness

Moderately irritating to the eyes. Eyes Skin

Causes skin irritation.

Inhalation May cause irritation of respiratory tract. 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 %
Stoddard solvent	8052-41-3	10 - 30
Petroleum naphtha, light aromatic	64742-95-6	10 - 30
Limestone	1317-65-3	10 - 30
Crystalline silica (cristobalite)	14464-46-1	5 - 10
1,2,4-Trimethylbenzene (contaminant)	95-63-6	5 - 10
Iron oxide	1309-37-1	5 - 10
Inert Pigment	Trade Secret	1 - 5
Ethylene glycol monopropyl ether	2807-30-9	1 - 5
Ethyl alcohol	64-17-5	1 - 5
1,3,5-Trimethylbenzene (contaminant)	108-67-8	1 - 5
Cumene (contaminant)	98-82-8	< 1
Quartz, crystalline silica	14808-60-7	< 0.5
Ethyl benzene (contaminant)	100-41-4	< 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

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**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.

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.

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

artificial respiration. Get medical attention immediately.

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

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

## 5. FIRE-FIGHTING MEASURES

FLAMMABLE LIQUID AND VAPOR. Flammable Properties

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. Keep product and empty container away from heat

and sources of ignition. Risk of ignition.

# 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.

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

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 limits**

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Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Ontario TWAEV	Mexico OEL (TWA)
Stoddard solvent	TWA: 100 ppm	TWA: 100 ppm TWA: 525 mg/m <sup>3</sup> TWA: 500 ppm TWA: 2900 mg/m <sup>3</sup>	20000 mg/m³	TWA: 525 mg/m³	TWA/LMPE-PPT: 100 ppm TWA/LMPE-PPT: 523 mg/m³ STEL/LMPE-CT: 200 ppm STEL/LMPE-CT: 1050 mg/m³
Limestone		TWA: 15 mg/m³ (total dust) TWA: 5 mg/m³ (respirable fraction)			TWA/LMPE-PPT: 10 mg/m³ STEL/LMPE-CT: 20 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)
Iron oxide	TWA: 5 mg/m <sup>3</sup> (respirable fraction)	TWA: 10 mg/m³ (fume)	2500 mg/m³ (as Fe)	TWA: 5 mg/m³ (respirable)	TWA/LMPE-PPT: 5 mg/m <sup>3</sup> STEL/LMPE-CT: 10 mg/m <sup>3</sup> (as Fe)
Ethylene glycol monopropyl ether				TWA: 25 ppm TWA: 110 mg/m³ Skin	
Ethyl alcohol	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	3300 ppm (10% LEL)	STEL: 1000 ppm	TWA/LMPE-PPT: 1000 ppm TWA/LMPE-PPT: 1900 mg/m³
Cumene (contaminant)	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m³ Skin	900 ppm (10% LEL)	TWA: 50 ppm	TWA/LMPE-PPT: 50 ppm TWA/LMPE-PPT: 245 mg/m³ STEL/LMPE-CT: 75 ppm STEL/LMPE-CT: 365 mg/m³
Quartz, crystalline silica	TWA: 0.025 mg/m <sup>3</sup> (respirable fraction)	TWA: 0.1 mg/m <sup>3</sup> (respirable dust)	50 mg/m <sup>3</sup>	TWA: 0.10 mg/m <sup>3</sup> (respirable)	TWA/LMPE-PPT: 0.1 mg/m³ (respirable fraction)
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

**Engineering Measures** 

**Personal Protective Equipment Respiratory Protection** 

**Eye Protection** 

**Skin Protection** 

Use ventilation adequate to keep exposures below recommended exposure limits. 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

Odor рΗ **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)

Liquid No information available No information available No information available No information available No information available

**Appearance** 

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Vapour Pressure No information available Vapour Density Heavier than air

Flammability (solid, gas) No information available

Flammability Limits in Air

Upper No information available
Lower No information available

Flash Point 29 °C / 85 °F Photochemically Reactive Yes

Weight Per Gallon (lbs/gal)9.94Specific Gravity1.19VOC by weight % (less water)42.7VOC by volume % (less water) 61.82VOC lbs/gal (less water)4.25VOC grams/liter (less water) 508.81

# 10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

Pensky Martens Closed Cup (PMCC)

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**

Method

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum naphtha, light aromatic	8400 mg/kg (Rat)	>2000 mg/kg(Rabbit)	3400 ppm (Rat) 4 h >5.2 mg/L (Rat) 4 h
1,2,4-Trimethylbenzene (contaminant)	3400 mg/kg (Rat)	>3160 mg/kg(Rabbit)	18 g/m³(Rat)4 h
Iron oxide	>10000 mg/kg (Rat)		
Ethylene glycol monopropyl ether	3089 mg/kg (Rat)	960 μL/kg (Rabbit)	
Ethyl alcohol	7060 mg/kg (Rat)		124.7 mg/L (Rat) 4 h
1,3,5-Trimethylbenzene (contaminant)	5000 mg/kg (Rat)		24 g/m³ (Rat) 4 h
Cumene (contaminant)	1400 mg/kg (Rat)	>3160 mg/kg (Rabbit)	39000 mg/m³ (Rat) 4 h
Quartz, crystalline silica	500 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
Crystalline silica (cristobalite)		Group 1		×
Cumene (contaminant)		Group 2B		×
Quartz, crystalline silica		Group 1	Known	×
Ethyl benzene (contaminant)	A3	Group 2B		X

Legend:

ACGIH: (American Conference of Governmental Industrial Hygienists)

IARC: (International Agency for Research on Cancer)

NTP: (National Toxicity Program)

A3 - Animal Carcinogen Group 1 - Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans Known - Known Carcinogen

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OSHA: (Occupational Safety & Health Administration)

X - Present

Sensitisation No information available **Mutagenic Effects** No information available Reproductive Effects No information available **Developmental hazard** No information available Teratogenicity 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** Blood, Central nervous system, Eyes, Kidney, Liver, Reproductive System, Respiratory

system, Skin.

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Chronic Effects

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

Component	Algae	Fish	Water Flea
Petroleum naphtha, light aromatic		96h LC50 Oncorhynchus mykiss: 9.22 mg/L	
1,2,4-Trimethylbenzene (contaminant)		96h LC50 Pimephales promelas: 7.19 - 8.28 mg/L [flow-through]	48h EC50 Daphnia magna: 6.14 mg/L
Ethyl alcohol		96h LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static] 96h LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through] 96h LC50 Pimephales promelas: >100 mg/L [static]	48h LC50 Daphnia magna: 9268 - 14221 mg/L 24h EC50 Daphnia magna: 10800 mg/L
1,3,5-Trimethylbenzene (contaminant)		96h LC50 Pimephales promelas: 3.48 mg/L	24h EC50 Daphnia magna: 50 mg/L
Cumene (contaminant)	72h EC50 Pseudokirchneriella subcapitata: 2.6 mg/L	96h LC50 Pimephales promelas: 6.04 - 6.61 mg/L [flow-through] 96h LC50 Oncorhynchus mykiss: 2.7 mg/L [semi-static] 96h LC50 Oncorhynchus mykiss: 4.8 mg/L [flow-through] 96h LC50 Poecilia reticulata: 5.1 mg/L [semi-static]	48h EC50 Daphnia magna: 7.9 - 14.1 mg/L [static] 48h EC50 Daphnia magna: 0.6 mg/L
Ethyl benzene (contaminant)	96h EC50 Pseudokirchneriella subcapitata: 1.7 - 7.6 mg/L [static] 72h EC50 Pseudokirchneriella subcapitata: 2.6 - 11.3 mg/L [static] 72h EC50 Pseudokirchneriella subcapitata: 4.6 mg/L 96h EC50 Pseudokirchneriella subcapitata: >438 mg/L	96h LC50 Oncorhynchus mykiss: 11.0 - 18.0 mg/L [static] 96h LC50 Pimephales promelas: 7.55 - 11 mg/L [flow-through] 96h LC50 Pimephales promelas: 9.1 - 15.6 mg/L [static] 96h LC50 Lepomis macrochirus: 32 mg/L [static] 96h LC50 Oncorhynchus mykiss: 4.2 mg/L [semi-static] 96h LC50 Poecilia reticulata: 9.6 mg/L [static]	48h EC50 Daphnia magna: 1.8 - 2.4 mg/L

**Persistence and Degradability** Bioaccumulation Mobility in Environmental Media

No information available No information available No information available

Component	log Pow
1,2,4-Trimethylbenzene (contaminant)	3.63
Ethyl alcohol	-0.32
Cumene (contaminant)	3.55
Ethyl benzene (contaminant)	3.118

# 13. DISPOSAL CONSIDERATIONS

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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

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
			vaiues
Ethyl benzene (contaminant)	100-41-4	< 0.5	0.1
Ethylene glycol monopropyl ether	2807-30-9	1 - 5	1.0
1,2,4-Trimethylbenzene (contaminant)	95-63-6	5 - 10	1.0

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

- 1	_		
	Component	CAS-No	Weight %
	Ethylene alycol monopropyl ether	2807-30-9	1 - 5

## **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	×	×	×
Limestone	X	×	×	×
Crystalline silica (cristobalite)	X	×	×	×
1,2,4-Trimethylbenzene (contaminant)	X	×	×	×
Iron oxide	X	X	×	×
Inert Pigment	Not Listed	Not Listed	Not Listed	×
Ethylene glycol monopropyl ether	Not Listed	Not Listed	×	×
Ethyl alcohol	X	×	×	×
1,3,5-Trimethylbenzene (contaminant)	X	Not Listed	Not Listed	Not Listed
Cumene (contaminant)	X	X	×	×
Quartz, crystalline silica	X	X	×	×
Ethyl benzene (contaminant)	X	X	X	X

# 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
Quartz, crystalline silica	14808-60-7	< 0.5

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Cumene (contaminant)	98-82-8	< 1

#### 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

by the CPR	
Component	WHMIS Classifications of Components
Stoddard solvent	B3,D2B
Petroleum naphtha, light aromatic	B3,D2B
Limestone	D2A
Crystalline silica (cristobalite)	D2A
1,2,4-Trimethylbenzene (contaminant)	B3
Iron oxide	Uncontrolled product according to WHMIS classification criteria
Inert Pigment	D2A
Ethylene glycol monopropyl ether	B3,D1B,D2B
Ethyl alcohol	B2,D2B
1,3,5-Trimethylbenzene (contaminant)	B3
Cumene (contaminant)	B2,D2A
Quartz, crystalline silica	D2A
Ethyl benzene (contaminant)	B2,D2A,D2B

Component	NPRI - National Pollutant Release Inventory
Stoddard solvent	Part 5 Substance
	Part 5, Other Groups and Mixtures
Petroleum naphtha, light aromatic	Part 5 Substance
	Part 5, Other Groups and Mixtures
1,2,4-Trimethylbenzene (contaminant)	Part 4 Substance
	Part 1, Group 1 Substance
	Part 5, Individual Substance
Ethylene glycol monopropyl ether	Part 4 Substance
Ethyl alcohol	Part 5 Substance
	Part 5, Individual Substance
1,3,5-Trimethylbenzene (contaminant)	Part 4 Substance
	Part 5, Isomer Groups
Cumene (contaminant)	Part 4 Substance
	Part 1, Group 1 Substance
Ethyl benzene (contaminant)	Part 4 Substance
	Part 1, Group 1 Substance

# Regulation (EC) No. 1907/2006 (REACH), Article 57

This product does not contain substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57)

# 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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