

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 5508 Radiant Ultra Blue 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 USA: Chemtrec: 1-800-424-9300

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.
Eyes Skin Inhalation	Moderately irritating to the eyes. Causes skin irritation. May cause irritation of respiratory tract. Inhalation of high vapour concentrations may
Ingestion	cause symptoms like headache, dizziness, tiredness, nausea and vomiting. 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	5 - 10
1,2,4-Trimethylbenzene (contaminant)	95-63-6	5 - 10
Ethylene glycol monopropyl ether	2807-30-9	1 - 5
Crystalline silica (cristobalite)	14464-46-1	1 - 5
1,3,5-Trimethylbenzene (contaminant)	108-67-8	1 - 5
Fitanium dioxide	13463-67-7	1 - 5
Cumene (contaminant)	98-82-8	< 1
Ethyl benzene (contaminant)	100-41-4	< 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

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.

Page 1 / 7

Product code 5508 - Radiant Ultra Blue

Revision Date Mar-08-2013

immediately with pleinty of water for at least 15 minutes. Remove contaminated clothing Inhalation If breathed in, move person into fresh air. If breathing is irregular or stopped, administe Ingestion If swallowed, DO NOT induce vomiting. Call a physician or Poison Control Centre Immediately. Never give anything by mouth to an unconscious person. Suitable Properties FLAMMABLE LIQUID AND VAPOR. Suitable Extinguishing Media Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measure that are appropriate to local circumstances and the surrounding environment. Protective Equipment and Precautions for Firefighters Colo containers / tanks with water spray. Fire or intense heat may cause viol containers / tanks with water spray. Fire or intense heat may cause viol produces obnoxious and toxic (Immes. Keep product and empty container away from the and sources of ignition. And tail graces or intense heat may cause viol containers / tanks with water spray. Fire or intense heat may cause viol containers / tanks with water spray. Fire or intense heat may cause viol containers / tanks with water spray. Fire or intense heat may cause viol containers / tanks with water spray. Fire or intense heat may cause viol tain spray container away from the and sources of ignition. Ventilate the area. Avoid breathing dust or vapor. Avo and sources of ignition. Ventilate the area. Keep people a from and sources of ignition. Ventilate the area. Keep people a from and upwind of spill/leak. Personal Precautions Remove all sources of ignition. Ventilate the area. Keep container away from the product ontain intes rivers and lakes or drains inform respectiv		
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immediately. Never give anything by mouth to an unconscious person. 5. FIRE-FIGHTING MEASURES Flammable Properties FLAMMABLE LIQUID AND VAPOR. Suitable Extinguishing Media Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measure that are appropriate to local circumstances and the surrounding environment. Protective Equipment and Precautions for Firefighters Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measure that are appropriate to local circumstances and the surrounding environment. Specific Hazards Arising from the Chemical As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOS equipture of packages. Specific Hazards Arising from the Chemical Thermal decomposition can lead to release of irritating gases and vapours. Burning produces obnoxius and toxic fumes. Keep product and empty container away from he and sources of ignition. Kisk of ignition. Contain splitage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, verniculite) and transfer to a container for disposal according to lo national regulations (see section 13). Do not use sparking tools. Environmental Precautions Prevent product from entering drains. Prevent further leakage or splilage if safe to do s the product contaminates rivers and lakes or drains inform respective authorities. T. 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. W	Inhalation	If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.
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Exposure limits	Storage	closed when not in use. Keep out of the reach of children. Keep away from heat and
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Component ACGIH TLV OSHA PEL NIOSH IDLH Ontario TWAEV Mexico OEL (TWA	Exposure limits	
	Component ACGIH	I TLV OSHA PEL NIOSH IDLH Ontario TWAEV Mexico OEL (TWA)

Item Numbers: 43212-5137, 43212-5812, 43212-5817

Page 2 / 7

Page 2 of 7

Product code 5508 - Radiant Ultra Blue

Revision Date Mar-08-2013

Stoddard solvent	TWA: 100 ppm	TWA: 100 ppm TWA: 525 mg/m ³ TWA: 500 ppm TWA: 2900 mg/m ³	20000 mg/m³	TWA: 525 mg/m³	TWA/LMPE-PPT: 100 ppm TWA/LMPE-PPT: 523 mg/m ³ STEL/LMPE-CT: 200 ppm STEL/LMPE-CT: 1050 mg/m ³
Limestone		TWA: 15 mg/m ³ (total dust) TWA: 5 mg/m ³ (respirable fraction)			TWA/LMPE-PPT: 10 mg/m ³ STEL/LMPE-CT: 20 mg/m ³
Ethylene glycol monopropyl ether				TWA: 25 ppm TWA: 110 mg/m³ Skin	
Crystalline silica (cristobalite)	TWA: 0.025 mg/m ³ (respirable fraction)	TWA: 0.05 mg/m ³ (respirable dust)	25 mg/m ³	TWA: 0.05 mg/m ³ (respirable)	TWA/LMPE-PPT: 0.05 mg/m ³ (respirable fraction)
Titanium dioxide	TWA: 10 mg/m ³	TWA: 10 mg/m³ (total dust) TWA: 15 mg/m³ (total dust)	5000 mg/m³	TWA: 10 mg/m³ (total dust)	TWA/LMPE-PPT: 10 mg/m³ (as Ti) STEL/LMPE-CT: 20 mg/m³ (as Ti)
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/m ³ STEL/LMPE-CT: 75 ppm STEL/LMPE-CT: 365 mg/m ³
Ethyl benzene (contaminant)	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m ³ STEL: 125 ppm STEL: 545 mg/m ³	800 ppm (10% LEL)	TWA: 100 ppm STEL: 125 ppm	TWA/LMPE-PPT: 100 ppm TWA/LMPE-PPT: 435 mg/m ³ STEL/LMPE-CT: 125 ppm STEL/LMPE-CT: 545 mg/m ³

Engineering Measures

Personal Protective Equipment Respiratory Protection

Eye Protection

Skin Protection

General Hygiene Considerations

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.

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	Colored liquid	Physical State	Liquid
Odor	Characteristic	Odor Threshold	No information available
рН	No information available	Autoignition Temperature	No information available
Boiling point/Boiling Range	>149 °C / >300 °F	Melting Point/Range	No information available
Freezing Point/Range	No information available	Solubility	No information available
Evaporation Rate	No information available	Partition Coefficient (n-octanol/water)	No information available
Vapour Pressure	No information available	Vapour Density	Heavier than air
Flammability (solid, gas)	No information available		
		Flammability Limits in Air	
		Upper No information avai	lable
		Lower No information avai	ilable

Item Numbers: 43212-5137, 43212-5812, 43212-5817

Product code 5508 - Radiant Ultra Blue

Revision Date Mar-08-2013

Flash Point Method	29 °C / 85 °F Pensky Martens Close	Photochemically Reactive Yes
Weight Per Ga VOC by weight VOC Ibs/gal (le	% (less water) 33.02	Specific Gravity1.29VOC by volume % (less water) 48.94VOC grams/liter (less water)425.14
	-	0. STABILITY AND REACTIVITY
Chemical Stab	lity St	ble 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
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
Ethylene glycol monopropyl ether	3089 mg/kg (Rat)	960 µL/kg (Rabbit)	
1,3,5-Trimethylbenzene (contaminant)	5000 mg/kg (Rat)		24 g/m³(Rat)4 h
Titanium dioxide	>10000 mg/kg (Rat)		
Cumene (contaminant)	1400 mg/kg (Rat)	>3160 mg/kg (Rabbit)	39000 mg/m ³ (Rat) 4 h
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		х
Titanium dioxide		Group 2B		х
Cumene (contaminant)		Group 2B		Х
Ethyl benzene (contaminant)	A3	Group 2B		Х

Legend:

ACGIH: (American Conference of Governmental Industrial Hygienists) IARC: (International Agency for Research on Cancer)

OSHA: (Occupational Safety & Health Administration)

Sensitisation Mutagenic Effects Reproductive Effects Developmental hazard Teratogenicity No information available A3 - Animal Carcinogen Group 1 - Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans X - Present

Item Numbers: 43212-5137, 43212-5812, 43212-5817

Revision Date Mar-08-2013

Chronic Effects

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. Blood, Central nervous system, Eyes, Kidney, Respiratory system, Skin.

Target Organ Effects

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
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
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
Cumene (contaminant)	3.55
Ethyl benzene (contaminant)	3.118

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 ΙCAO/ΙΑΤΑ UN1210, Printing Ink, 3, III IMDG/IMO

Page 5 / 7

UN1210, Printing Ink, 3, III

Page 6 of 7

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
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)

Component	CAS-No	Weight %
Ethylene glycol 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	X	Х	Х
Limestone	X	Х	Х	Х
1,2,4-Trimethylbenzene (contaminant)	X	Х	X	X
Ethylene glycol monopropyl ether	Not Listed	Not Listed	Х	X
Crystalline silica (cristobalite)	X	X	X	X
1,3,5-Trimethylbenzene (contaminant)	X	Not Listed	Not Listed	Not Listed
Titanium dioxide	X	X	Х	Х
Cumene (contaminant)	X	X	Х	Х
Ethyl benzene (contaminant)	X	Х	Х	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	1 - 5
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

Component	WHMIS Classifications of Components		
Stoddard solvent	B3,D2B		
Petroleum naphtha, light aromatic	B3,D2B		
Limestone	D2A		
1,2,4-Trimethylbenzene (contaminant)	B3		
Ethylene glycol monopropyl ether	B3,D1B,D2B		
Crystalline silica (cristobalite)	D2A		
1,3,5-Trimethylbenzene (contaminant)	B3		
Titanium dioxide	D2A		
Cumene (contaminant)	B2,D2A		
Ethyl benzene (contaminant)	B2,D2A,D2B		

Page 7 of 7

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		
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)

HMIS:	Health 2 *	Flammability 3	Reactivity 0	PPE X		
16. OTHER INFORMATION						
Revision Date	Mar-08-2013					
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