

# **SAFETY DATA SHEET**

Print Date May-31-2015 Revision Date May-30-2015 Revision Number

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier	
Product code	
Product name	
Product category	

8487 Blue Toner (RS) 8400 Series CVIM Conventional Insert Mold Decorating Screen Ink

Other means of identification Synonyms None

 Recommended use of the chemical and restrictions on use

 Recommended use
 Printing operations

### Details of the supplier of the safety data sheet

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 www.nazdar.com 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 24 Hour Emergency Phone Number

### 2. HAZARDS IDENTIFICATION

#### **Classification**

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Aspiration toxicity	Category 1 - (H304)
Flammable liquids	Category 3 - (H226)

#### Label elements



Signal Wor Danger

#### **Hazard Statements**

H304 - May be fatal if swallowed and enters airways H332 - Harmful if inhaled H226 - Flammable liquid and vapor

### **Precautionary Statements**

P331 - Do NOT induce vomiting

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

#### Hazards not otherwise classified (HNOC)

May be harmful if swallowed. May be harmful in contact with skin.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Component	CAS-No	Weight %	Trade Secret	Note
Naphtha (petroleum), heavy aromatic	64742-94-5	10 - 30	*	
Cyclohexanone	108-94-1	10 - 30	*	
Gamma Butyrolactone	96-48-0	5 - 10	*	
Copper Phthalocyanine Compound	Trade Secret	5 - 10	*	
Dimethyl Glutarate	1119-40-0	1 - 5	*	
Naphthalene (constituent)	91-20-3	1 - 5	*	1
Kaolin	1332-58-7	1 - 5	*	
Dimethyl Succinate	106-65-0	1 - 5	*	
Dimethyl Adipate	627-93-0	1 - 5	*	
1,2,4-Trimethylbenzene (constituent)	95-63-6	< 1	*	1

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

Note 1. Type of chemical: Constituent

### **4. FIRST AID MEASURES**

#### Description of first aid measures

General Advice Eye Contact	Show this safety data sheet to the doctor in attendance. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops and persists.
Skin Contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.
Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.
Ingestion	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

### Most important symptoms and effects, both acute and delayed

None under normal use conditions.

#### Indication of any immediate medical attention and special treatment needed

### Notes to Physician

Treat symptomatically.

### **5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

No information available.

#### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

#### **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. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

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

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Handling

Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

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

StorageKeep containers tightly closed in a dry, cool and well-ventilated place. Keep away from<br/>open flames, hot surfaces and sources of ignition. Keep container closed when not in use.<br/>Keep out of the reach of children.

**Incompatible Products** 

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure limits**

Component	ACGIH TLV
Cyclohexanone	TWA: 20 ppm
108-94-1	STEL: 50 ppm
	Skin
Naphthalene (constituent)	TWA: 10 ppm
91-20-3	STEL: 15 ppm
	Skin
Kaolin	TWA: 2 mg/m <sup>3</sup> (respirable fraction)
1332-58-7	
Component	OSHA PEL
Cyclohexanone	TWA: 25 ppm
108-94-1	TWA: 100 mg/m <sup>3</sup>
	TWA: 50 ppm
	TWA: 200 mg/m <sup>3</sup>
	Skin
Naphthalene (constituent)	TWA: 10 ppm
91-20-3	TWA: 50 mg/m <sup>3</sup>
	STEL: 15 ppm

	STEL: 75 mg/m <sup>3</sup>
Kaolin 1332-58-7	TWA: 10 mg/m³ (total dust) TWA: 5 mg/m³ (respirable fraction) TWA: 15 mg/m³ (total dust)

Component	Ontario TWAEV
Cyclohexanone	TWA: 20 ppm
108-94-1	STEL: 50 ppm
	Skin
Naphthalene (constituent)	TWA: 10 ppm
91-20-3	STEL: 15 ppm
	Skin
Kaolin	TWA: 2 mg/m <sup>3</sup> (respirable)
1332-58-7	

Component	Mexico OEL (TWA)
Cyclohexanone	TWA/LMPE-PPT: 50 ppm
108-94-1	TWA/LMPE-PPT: 200 mg/m <sup>3</sup>
	STEL/LMPE-CT: 100 ppm
	STEL/LMPE-CT: 400 mg/m <sup>3</sup>
Naphthalene (constituent)	TWA/LMPE-PPT: 10 ppm
91-20-3	TWA/LMPE-PPT: 50 mg/m <sup>3</sup>
	STEL/LMPE-CT: 15 ppm
	STEL/LMPE-CT: 75 mg/m <sup>3</sup>
Kaolin	TWA/LMPE-PPT: 10 mg/m <sup>3</sup>
1332-58-7	STEL/LMPE-CT: 20 mg/m <sup>3</sup>

### Appropriate engineering controls

Engineering Measures	Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.			
Individual protection measures, su	ch as personal protective	equipment		
Eye/face Protection				es are likely to occur:. Wear ty showers are close to the
Skin Protection	Wear impervious protect as appropriate, to preven		ing boots, gloves	, lab coat, apron or coveralls,
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.			
General Hygiene Considerations	eating, drinking or smoki eyes, skin and clothing.	landle in accordance with good industrial hygiene and safety practice. Wash hands before tating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended.		
	9. PHYSICAL AND C	HEMICAL PRO	PERTIES	
Information on basic physical and	chemical properties			
Physical State	Liquid	۸n	ooranoo	Colored Liquid

Information on basic physical and cl	nemical properties		
Physical State	Liquid	Appearance	Colored Liquid
Odor	Characteristic	Odor Threshold	No information available
Flash Point	<u>Values</u> > 149 °C / 300 °F 44 °C / 111 °F	Remarks • Method No data available No data available Tag closed cup	
Evaporation rate		No data available	

Flammability Limit in Air Upper flammability limit Lower flammability limit Vapor Pressure Vapor Density Specific Gravity Water Solubility Solubility in other solvents Partition coefficient: n-octanol/wat Autoignition Temperature Decomposition temperature Kinematic viscosity Dynamic viscosity	1.07 ær	No data available No data available
Explosive Properties Oxidizing Properties	No data available No data available	
Other Information		
Photochemically Reactive Weight Per Gallon (Ibs/gal)	Yes 8.91	

VOC by weight %	VOC by volume %	VOC lbs/gal	VOC grams/liter
(less water)	(less water)	(less water)	(less water)
63.04	65.93	5.62	

### **10. STABILITY AND REACTIVITY**

#### **Reactivity**

No information available.

#### Chemical stability

Stable under normal conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

#### Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

#### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

### Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO2). Carbon monoxide.

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Inhalation	There is no data for this product.
Eye Contact	There is no data for this product.
Skin Contact	There is no data for this product.
Ingestion	There is no data for this product.

Component	Oral LD50
Naphtha (petroleum), heavy aromatic 64742-94-5	>5000 mg/kg (Rat)
Cyclohexanone 108-94-1	800 mg/kg (Rat)
Gamma Butyrolactone 96-48-0	1540 mg/kg (Rat)
Dimethyl Glutarate	8191 mg/kg (Rat)

1119-40-0	
Naphthalene (constituent) 91-20-3	490 mg/kg (Rat)
Dimethyl Succinate 106-65-0	>5000 mg/kg (Rat)
Dimethyl Adipate 627-93-0	1920 mg/kg (Rat)
1,2,4-Trimethylbenzene (constituent) 95-63-6	3400 mg/kg (Rat)
Component	LD50 Dermal
Naphtha (petroleum), heavy aromatic 64742-94-5	>2000 mg/kg (Rabbit)
Naphthalene (constituent) 91-20-3	>2500 mg/kg (Rat) >20 g/kg (Rabbit)
Dimethyl Succinate 106-65-0	>5000 mg/kg (Rabbit)
1,2,4-Trimethylbenzene (constituent) 95-63-6	>3160 mg/kg (Rabbit)
Component	Inhalation LC50
Naphtha (petroleum), heavy aromatic 64742-94-5	>590 mg/m³(Rat)4 h
Cyclohexanone 108-94-1	8000 ppm (Rat)4 h 10.7 mg/L (Rat)4 h
Gamma Butyrolactone 96-48-0	>2.68 mg/L (Rat)4 h
Dimethyl Glutarate 1119-40-0	>5.6 mg/L (Rat)4 h
Naphthalene (constituent) 91-20-3	>340 mg/m³(Rat)1 h
1,2,4-Trimethylbenzene (constituent) 95-63-6	18 g/m³(Rat)4 h

### Information on toxicological effects

Symptoms

There is no data for this product.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Eye damage/irritation Irritation Corrosivity Sensitisation Mutagenic Effects Reproductive Effects STOT - single exposure STOT - repeated exposure Chronic Toxicity Aspiration hazard Carcinogenicity Component Cyclohexanone	There is no data for this product. There is no data for this product.	er each agency has listed any ingredient as a carcinogen. ACGIH A3
108-94-1		
Component Naphthalene (constituent) 91-20-3		IARC Group 2B
<b>Component</b> Naphthalene (constituent) 91-20-3		NTP Reasonably Anticipated
Component Naphthalene (constituent)		OSHA X

91-20-3

### Numerical measures of toxicity - Product Information

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	2,774.00 mg/kg
ATEmix (dermal)	4,499.00 mg/kg
ATEmix (inhalation-dust/mist)	8.00 mg/l
ATEmix (inhalation-vapor)	58.00 mg/l

### **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

None known

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Component	Algae/aquatic plants
Cyclohexanone 108-94-1	96h EC50 Chlorella vulgaris: 20 mg/L
Gamma Butyrolactone 96-48-0	72h EC50 Desmodesmus subspicatus: 360 mg/L 96h EC50 Desmodesmus subspicatus: 79 mg/L
Naphthalene (constituent) 91-20-3	72h EC50 Skeletonema costatum: 0.4 mg/L
Component	Fish
Cyclohexanone 108-94-1	96h LC50 Pimephales promelas: 481 - 578 mg/L [flow-through]
Gamma Butyrolactone 96-48-0	96h LC50 Leuciscus idus: 220 - 460 mg/L [static]
Dimethyl Glutarate 1119-40-0	96h LC50 Pimephales promelas: 19.6 - 26.2 mg/L [static]
Naphthalene (constituent) 91-20-3	96h LC50 Oncorhynchus mykiss: 0.91 - 2.82 mg/L [static] 96h LC50 Pimephales promelas: 5.74 - 6.44 mg/L [flow-through] 96h LC50 Oncorhynchus mykiss: 1.6 mg/L [flow-through] 96h LC50 Pimephales promelas: 1.99 mg/L [static] 96h LC50 Lepomis macrochirus: 31.0265 mg/L [static]
Dimethyl Succinate 106-65-0	96h LC50 Brachydanio rerio: 50 - 100 mg/L [static]
1,2,4-Trimethylbenzene (constituent) 95-63-6	96h LC50 Pimephales promelas: 7.19 - 8.28 mg/L [flow-through]
C	Crustana

Component	Crustacea
Cyclohexanone	24h EC50 Daphnia magna: 800 mg/L
108-94-1	
Gamma Butyrolactone	48h EC50 Daphnia magna Straus: >500 mg/L
96-48-0	
Dimethyl Glutarate	48h EC50 Daphnia magna: 122.1 - 163.5 mg/L
1119-40-0	
Naphthalene (constituent)	48h EC50 Daphnia magna: 1.09 - 3.4 mg/L [static]
91-20-3	48h EC50 Daphnia magna: 1.96 mg/L [Flow through]
	48h LC50 Daphnia magna: 2.16 mg/L
1,2,4-Trimethylbenzene (constituent)	48h EC50 Daphnia magna: 6.14 mg/L
95-63-6	

### Persistence and Degradability

No information available.

#### Bioaccumulation

No information available.

Component	Partition coefficient
Naphtha (petroleum), heavy aromatic	4.5

64742-94-5	
Cyclohexanone 108-94-1	0.86
Gamma Butyrolactone 96-48-0	-0.566
Naphthalene (constituent) 91-20-3	3.3
Dimethyl Succinate 106-65-0	0.19
1,2,4-Trimethylbenzene (constituent) 95-63-6	3.63

#### Other adverse effects

No information available

#### **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods	
Waste Disposal Methods	Contain and dispose of waste according to local regulations.
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

### **14. TRANSPORT INFORMATION**

DOT UN/ID no. Proper Shipping Name Hazard Class Packing Group	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]. UN1210 Printing Ink 3 III
ICAO / IATA / IMDG / IMO UN/ID no. Proper Shipping Name Hazard Class Packing Group	UN1210 Printing Ink 3 III

### **15. REGULATORY INFORMATION**

International Inventories

All components are listed on the TSCA Inventory. For further information, please contact:. Supplier (manufacturer/importer/downstream user/distributor).

#### U.S. Federal Regulations

Naphthalene (constituent)

#### **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. CAS-No SARA 313 - Threshold Component Weight % Values

91-20-3

1 - 5

0.1

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

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:.

Component	CAS-No	Weight %
Naphthalene (constituent)	91-20-3	1 - 5

### U.S. State Regulations

Component	Massachusetts Right To Know
Cyclohexanone 108-94-1	X
Naphthalene (constituent) 91-20-3	X
Kaolin 1332-58-7	X
1,2,4-Trimethylbenzene (constituent) 95-63-6	×

Component	Minnesota Right To Know
Cyclohexanone 108-94-1	X
Naphthalene (constituent) 91-20-3	x
Kaolin 1332-58-7	x
1,2,4-Trimethylbenzene (constituent) 95-63-6	X

Component	New Jersey Right To Know
Cyclohexanone 108-94-1	X
Copper Phthalocyanine Compound	X
Naphthalene (constituent) 91-20-3	x
Kaolin 1332-58-7	X
1,2,4-Trimethylbenzene (constituent) 95-63-6	X

Component	Pennsylvania Right To Know
Cyclohexanone 108-94-1	x
Copper Phthalocyanine Compound	x
Naphthalene (constituent) 91-20-3	x
Kaolin 1332-58-7	x
1,2,4-Trimethylbenzene (constituent) 95-63-6	x

<u>California Prop. 65</u> This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm

Component	California Prop. 65
Naphthalene (constituent)	Carcinogen

### <u>Canada</u>

Component	NPRI - National Pollutant Release Inventory
Naphtha (petroleum), heavy aromatic 64742-94-5	Part 5, Other Groups and Mixtures Part 4 Substance as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999
Cyclohexanone 108-94-1	Part 4 Substance as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999
Gamma Butyrolactone	Part 4 Substance as set out in Section 65 of the List of Toxic

96-48-0	Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999
Copper Phthalocyanine Compound	Part 1, Group A Substance total of the pure element and the equivalent weight of the element contained in any compound, alloy or mixture
Dimethyl Glutarate 1119-40-0	Part 4 Substance as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999
Naphthalene (constituent) 91-20-3	Part 1, Group A Substance Part 4 Substance as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999
Dimethyl Succinate 106-65-0	Part 4 Substance as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999
Dimethyl Adipate 627-93-0	Part 4 Substance as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999
1,2,4-Trimethylbenzene (constituent) 95-63-6	Part 1, Group A Substance Part 5, Individual Substances Part 4 Substance as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999

### **16. OTHER INFORMATION**

HMIS:	Health	Flammability	Reactivity	Personal Protection
	3 *	2	0	Х

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value

#### ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans
NTP: (National Toxicity Program)
Known - Known Carcinogen
Reasonably Anticipated to be a Human Carcinogen
OSHA: (Occupational Safety & Health Administration)
X - Present

#### **Revision Date**

May-30-2015

#### **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