



Print Date May-30-2015 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

16128 Halftone Magenta (LTR) 1600 PowerPrint® Series UV Screen Ink

Other means of identification Synonyms

Recommended use of the chemical and restrictions on useRecommended usePrinting operations

None

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

Skin Corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)

Label elements



Warning

Hazard Statements

H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation

P280 - Wear eye protection/ face protection

Hazards not otherwise classified (HNOC)

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Component	CAS-No	Weight %	Trade Secret	Note
Glycol Ether Acrylate	Trade Secret	10 - 30	*	
Acrylated Monomer	Trade Secret	10 - 30	*	
Acrylated Monomer	Trade Secret	10 - 30	*	
Triethanolamine	102-71-6	1 - 5	*	
Photoinitiator	Trade Secret	1 - 5	*	
Photoinitiator	Trade Secret	1 - 5	*	
Photoinitiator	Trade Secret	1 - 5	*	

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

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. Hazardous polymerization may take place during a fire due to heat. Closed containers could violently rupture.

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		
Storage	Keep at temperatures between 18°-32°C (65°-90°F). 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. Protect from direct sunlight. Keep away from open flames, hot surfaces and sources of ignition.	
Incompatible Products Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.		
8. EXPOSURE CONTROLS/PERSONAL PROTECTION		

Control parameters

Exposure limits

Component	ACGIH TLV
Triethanolamine	TWA: 5 mg/m ³
102-71-6	-

Component	Ontario TWAEV
Triethanolamine	TWA: 0.5 ppm
102-71-6	TWA: 3.1 mg/m ³

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	Wear safety glasses with side shields (or goggles). If splashes are likely to occur:. Wear suitable face shield. Ensure that eyewash stations and safety showers are close to the workstation location.
Skin Protection	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

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	as appropriate, to prevent skin contact.	
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	Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, 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 CHEMICAL PROPERTIES

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Physical State Odor <u>Property</u> pH Melting point/freezing point Boiling point/Boiling Range Flash Point Evaporation rate Flammability Limit in Air	Liquid Mild Sweet Acrylic <u>Values</u> > 149 °C / 300 °F > 94 °C / > 201 °F	Appearance Odor Threshold <u>Remarks • Method</u> No data available No data available Pensky Martens Close	Colored Liquid No information available
Property pH Melting point/freezing point Boiling point/Boiling Range Flash Point Evaporation rate	<u>Values</u> > 149 °C / 300 °F	Remarks • Method No data available No data available Pensky Martens Close	No information available
pH Melting point/freezing point Boiling point/Boiling Range Flash Point Evaporation rate	> 149 °C / 300 °F	No data available No data available Pensky Martens Close	
Melting point/freezing point Boiling point/Boiling Range Flash Point Evaporation rate		No data available Pensky Martens Close	
Boiling point/Boiling Range Flash Point Evaporation rate		Pensky Martens Close	
Flash Point Evaporation rate			
Evaporation rate	> 94 °C / > 201 °F		
			ed Cup (PMCC)
Flammability I imit in Air		No data available	
Upper flammability limit		No data available	
Lower flammability limit		No data available	
Vapor Pressure		No data available	
Vapor Density		No data available	
Specific Gravity	1.1		
Water Solubility		No data available	
Solubility in other solvents		No data available	
Partition coefficient: n-octanol/wa	ater	No data available	
Autoignition Temperature		No data available	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		No data available	
Explosive Properties	No data available		
Oxidizing Properties	No data available		
Other Information			
Photochemically Reactive	No		
Weight Per Gallon (Ibs/gal)	9.19		
VOC by weight %	VOC by volume %	VOC lbs/gal	VOC grams/liter
(less water)	(less water)	(less water)	(less water)
0-1	No information available	0-1	0-1

10. STABILITY AND REACTIVITY

Reactivity

No information available.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing. Do not store for longer periods at temperatures above 93°C (200°F).

<u>Conditions to avoid</u> Temperatures above 93 °C / 200 °F. Protect from direct sunlight. 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
Glycol Ether Acrylate	4660 μL/kg (Rat)
Acrylated Monomer	5 g/kg (Rat)
Acrylated Monomer	5190 μL/kg (Rat)
Triethanolamine 102-71-6	4190 mg/kg (Rat)

Component	LD50 Dermal
Glycol Ether Acrylate	2540 μL/kg (Rabbit)
Acrylated Monomer	3600 μL/kg (Rabbit)
Acrylated Monomer	5000 mg/kg (Rabbit)
Triethanolamine	>16 mL/kg (Rat)
102-71-6	>2000 mg/kg (Rabbit)

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	There is no data for this product. There is no data for this product.
Aspiration hazard Carcinogenicity	There is no data for this product. This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity - Product Information

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

ATEmix	(oral)
ATEmix	(dermal)

12,352.00 mg/kg 20,819.00 mg/kg 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
Triethanolamine	96h EC50 Desmodesmus subspicatus: 169 mg/L
102-71-6	72h EC50 Desmodesmus subspicatus: 216 mg/L
Component	Fish
Triethanolamine	96h LC50 Pimephales promelas: 10600 - 13000 mg/L
102-71-6	[flow-through]
	96h LC50 Lepomis macrochirus: 450 - 1000 mg/L [static]
	96h LC50 Pimephales promelas: >1000 mg/L [static]

Component	Crustacea
Triethanolamine	24h EC50 Daphnia magna: 1386 mg/L
102-71-6	

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Component	Partition coefficient
Triethanolamine	-2.53
102-71-6	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods	
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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

Not regulated DOT **Proper Shipping Name**

ICAO / IATA / IMDG / IMO **Proper Shipping Name**

Printing Ink Not Regulated

Printing Ink

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

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

 Glycol Ether Acrylate
 Trade Secret
 10 - 30
 1.0

The above glycol ether acrylate is considered a reactive this glycol ether acrylate regime is a bar		
this glycol ether acrylate rapidly polymerizes (i.e. hard measured in milliseconds.	tens) and becomes part of the link him.	The polymenzation process of 0 v curable links is

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 %
Glycol Ether Acrylate	Trade Secret	10 - 30

U.S. State Regulations

Component	Massachusetts Right To Know
Triethanolamine 102-71-6	Х
Component	Minnesota Right To Know
Acrylated Monomer	x
Acrylated Monomer	x
Triethanolamine 102-71-6	Х

Component	New Jersey Right To Know
Glycol Ether Acrylate	Х
Triethanolamine 102-71-6	Х

Component	Pennsylvania Right To Know
Glycol Ether Acrylate	Х
Triethanolamine 102-71-6	Х

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects

Canada

omponent NPRI - National Pollutant Release Inven	
Triethanolamine 102-71-6	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	
	2	1	1	X	

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 MTP: (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