SAFETY DATA SHEET

Print Date	Revision Date	Revision Number
May-30-2015	May-30-2015	1

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

Product identifier

Product code **51361**

Product name **Yellow**

Product category **VersaCon® Classic 5100 Series Container 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 - Oral	Category 4 - (H302)
Skin Corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitization	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Flammable liquids	Category 3 - (H226)

Label elements

Signal Word
Danger

Hazard Statements
H302 - Harmful if swallowed

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H351 - Suspected of causing cancer
H226 - Flammable liquid and vapor

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P280 - Wear eye protection/ face protection
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Hazards not otherwise classified (HNOC)

May be harmful in contact with skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Component	CAS-No	Weight %	Trade Secret	Note
n-Butyl alcohol	71-36-3	10 - 30	*	
Dipropylene Glycol Monomethyl Ether	34590-94-8	5 - 10	*	
Ethylene glycol monopropyl ether	2807-30-9	5 - 10	*	
2-Butoxyethanol	111-76-2	5 - 10	*	
Phosphoric acid, dibutyl ester	107-66-4	1 - 5	*	
Formaldehyde	50-00-0	< 0.5	*	

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

4. FIRST AID MEASURES

Description of first aid measures

General Advice Show this safety data sheet to the doctor in attendance.

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 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

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container closed when not in use. 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
n-Butyl alcohol 71-36-3	TWA: 20 ppm
Dipropylene Glycol Monomethyl Ether 34590-94-8	TWA: 100 ppm STEL: 150 ppm Skin
2-Butoxyethanol 111-76-2	TWA: 20 ppm
Phosphoric acid, dibutyl ester 107-66-4	TWA: 5 mg/m³ (inhalable fraction and vapor) Skin
Formaldehyde 50-00-0	Ceiling: 0.3 ppm

Component	OSHA PEL
n-Butyl alcohol 71-36-3	Ceiling: 50 ppm Ceiling: 150 mg/m³ TWA: 100 ppm TWA: 300 mg/m³

	Skin
Dipropylene Glycol Monomethyl Ether 34590-94-8	TWA: 100 ppm TWA: 600 mg/m³ STEL: 150 ppm STEL: 900 mg/m³ Skin
2-Butoxyethanol 111-76-2	TWA: 25 ppm TWA: 120 mg/m³ TWA: 50 ppm TWA: 240 mg/m³ Skin
Phosphoric acid, dibutyl ester 107-66-4	TWA: 1 ppm TWA: 5 mg/m³ STEL: 2 ppm STEL: 10 mg/m³
Formaldehyde 50-00-0	Ceiling: 5 ppm unless specified in 1910.1048 TWA: 3 ppm STEL: 10 ppm 30 min TWA: 0.75 ppm STEL: 2 ppm

Component	**Ontario TWAEV**
n-Butyl alcohol 71-36-3	TWA: 20 ppm
Dipropylene Glycol Monomethyl Ether 34590-94-8	TWA: 100 ppm STEL: 150 ppm Skin
Ethylene glycol monopropyl ether 2807-30-9	TWA: 25 ppm TWA: 110 mg/m³ Skin
2-Butoxyethanol 111-76-2	TWA: 20 ppm
Phosphoric acid, dibutyl ester 107-66-4	TWA: 5 mg/m³ (inhalable fraction and vapor) Skin
Formaldehyde 50-00-0	STEL: 1.0 ppm CEV: 1.5 ppm

Component	**Mexico OEL (TWA)**
n-Butyl alcohol 71-36-3	Peak: 50 ppm Peak: 150 mg/m³
Dipropylene Glycol Monomethyl Ether 34590-94-8	TWA/LMPE-PPT: 100 ppm TWA/LMPE-PPT: 60 mg/m³ STEL/LMPE-CT: 150 ppm STEL/LMPE-CT: 900 mg/m³
2-Butoxyethanol 111-76-2	TWA/LMPE-PPT: 26 ppm TWA/LMPE-PPT: 120 mg/m³ STEL/LMPE-CT: 75 ppm STEL/LMPE-CT: 360 mg/m³
Phosphoric acid, dibutyl ester 107-66-4	TWA/LMPE-PPT: 1 ppm TWA/LMPE-PPT: 5 mg/m³ STEL/LMPE-CT: 2 ppm STEL/LMPE-CT: 10 mg/m³
Formaldehyde 50-00-0	Peak: 2 ppm Peak: 3 mg/m³

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, such 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, 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

Information on basic physical and chemical properties

Physical State	Liquid	**Appearance**	Colored Liquid
Odor	Characteristic	**Odor Threshold**	No information available

Property	**Values**	**Remarks • Method**
pH		No data available
Melting point/freezing point		No data available
Boiling point/Boiling Range	> 149 °C / 300 °F	
Flash Point	39 °C / 102 °F	Pensky Martens Closed Cup (PMCC)
Evaporation rate		No data available
Flammability Limit in Air		
Upper flammability limit		No data available
Lower flammability limit		No data available
Vapor Pressure		No data available
Vapor Density		No data available
Specific Gravity	1.06	
Water Solubility		No data available
Solubility in other solvents		No data available
Partition coefficient: n-octanol/water		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 (lbs/gal) 8.86

VOC by weight % (less water)	VOC by volume % (less water)	VOC lbs/gal (less water)	VOC grams/liter (less water)
41.61	44.9	3.69	442.42

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
n-Butyl alcohol 71-36-3	790 mg/kg (Rat)
Dipropylene Glycol Monomethyl Ether 34590-94-8	5230 mg/kg (Rat)
Ethylene glycol monopropyl ether 2807-30-9	3089 mg/kg (Rat)
2-Butoxyethanol 111-76-2	470 mg/kg (Rat)
Phosphoric acid, dibutyl ester 107-66-4	3200 mg/kg (Rat)
Formaldehyde 50-00-0	500 mg/kg (Rat)

Component	LD50 Dermal
n-Butyl alcohol 71-36-3	3400 mg/kg (Rabbit)
Dipropylene Glycol Monomethyl Ether 34590-94-8	9500 mg/kg (Rabbit)
Ethylene glycol monopropyl ether 2807-30-9	960 µL/kg (Rabbit)
2-Butoxyethanol 111-76-2	2270 mg/kg (Rat) 220 mg/kg (Rabbit)

Component	Inhalation LC50
n-Butyl alcohol 71-36-3	8000 ppm (Rat) 4 h 17.7 mg/L (Rat) 4 h
2-Butoxyethanol 111-76-2	2.21 mg/L (Rat) 4 h 450 ppm (Rat) 4 h
Formaldehyde 50-00-0	0.578 mg/L (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	There is no data for this product.
Eye damage/irritation	There is no data for this product.
Irritation	There is no data for this product.
Corrosivity	There is no data for this product.
Sensitisation	There is no data for this product.
Mutagenic Effects	There is no data for this product.
Reproductive Effects	There is no data for this product.
STOT - single exposure	There is no data for this product.

STOT - repeated exposure There is no data for this product.
Chronic Toxicity There is no data for this product
Aspiration hazard There is no data for this product.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH
2-Butoxyethanol 111-76-2	A3

Component	IARC
Formaldehyde 50-00-0	Group 1

Component	NTP
Formaldehyde 50-00-0	Known

Component	OSHA
Formaldehyde 50-00-0	X

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 2,544.00 mg/kg
ATEmix (dermal) 4,666.00 mg/kg
ATEmix (inhalation-dust/mist) 26.71 mg/l
ATEmix (inhalation-vapor) 134.00 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
n-Butyl alcohol 71-36-3	72h EC50 Desmodesmus subspicatus: 500 mg/L 96h EC50 Desmodesmus subspicatus: 500 mg/L

Component	Fish
n-Butyl alcohol 71-36-3	96h LC50 Lepomis macrochirus: 100000 - 500000 µg/L [static] 96h LC50 Pimephales promelas: 1730 - 1910 mg/L [static] 96h LC50 Pimephales promelas: 1740 mg/L [flow-through] 96h LC50 Pimephales promelas: 1910000 µg/L [static]
Dipropylene Glycol Monomethyl Ether 34590-94-8	96h LC50 Pimephales promelas: >10000 mg/L [static]
2-Butoxyethanol 111-76-2	96h LC50 Lepomis macrochirus: 1490 mg/L [static] 96h LC50 Lepomis macrochirus: 2950 mg/L
Formaldehyde 50-00-0	96h LC50 Oncorhynchus mykiss: 0.032 - 0.226 mL/L [flow-through] 96h LC50 Oncorhynchus mykiss: 100 - 136 mg/L [static] 96h LC50 Pimephales promelas: 22.6 - 25.7 mg/L [flow-through] 96h LC50 Pimephales promelas: 23.2 - 29.7 mg/L [static] 96h LC50 Lepomis macrochirus: 1510 µg/L [static] 96h LC50 Brachydanio rerio: 41 mg/L [static]

Component	Crustacea
n-Butyl alcohol 71-36-3	48h EC50 Daphnia magna: 1897 - 2072 mg/L [static] 48h EC50 Daphnia magna: 1983 mg/L
Dipropylene Glycol Monomethyl Ether 34590-94-8	48h LC50 Daphnia magna: 1919 mg/L
2-Butoxyethanol 111-76-2	24h EC50 Daphnia magna: 1698 - 1940 mg/L 48h EC50 Daphnia magna: >1000 mg/L

Formaldehyde 50-00-0	48h EC50 Daphnia magna: 11.3 - 18 mg/L [static] 48h LC50 Daphnia magna: 2 mg/L

Persistence and Degradability
No information available.

Bioaccumulation
No information available.

Component	Partition coefficient
n-Butyl alcohol 71-36-3	0.785
Dipropylene Glycol Monomethyl Ether 34590-94-8	-0.064
2-Butoxyethanol 111-76-2	0.81
Formaldehyde 50-00-0	0.35

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 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].

UN/ID no. UN1210
Proper Shipping Name Printing Ink
Hazard Class 3
Packing Group III

ICAO / IATA / IMDG / IMO

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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
n-Butyl alcohol	71-36-3	10 - 30	1.0

Ethylene glycol monopropyl ether	2807-30-9	5 - 10	1.0
2-Butoxyethanol	111-76-2	5 - 10	1.0
Formaldehyde	50-00-0	< 0.5	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 %
Ethylene glycol monopropyl ether	2807-30-9	5 - 10

U.S. State Regulations

Component	Massachusetts Right To Know
n-Butyl alcohol 71-36-3	X
Dipropylene Glycol Monomethyl Ether 34590-94-8	X
2-Butoxyethanol 111-76-2	X
Phosphoric acid, dibutyl ester 107-66-4	X
Formaldehyde 50-00-0	X

Component	Minnesota Right To Know
n-Butyl alcohol 71-36-3	X
Dipropylene Glycol Monomethyl Ether 34590-94-8	X
2-Butoxyethanol 111-76-2	X
Phosphoric acid, dibutyl ester 107-66-4	X
Formaldehyde 50-00-0	X

Component	New Jersey Right To Know
n-Butyl alcohol 71-36-3	X
Dipropylene Glycol Monomethyl Ether 34590-94-8	X
Ethylene glycol monopropyl ether 2807-30-9	X
2-Butoxyethanol 111-76-2	X
Phosphoric acid, dibutyl ester 107-66-4	X
Formaldehyde 50-00-0	X

Component	Pennsylvania Right To Know
n-Butyl alcohol 71-36-3	X
Dipropylene Glycol Monomethyl Ether 34590-94-8	X
Ethylene glycol monopropyl ether 2807-30-9	X
2-Butoxyethanol 111-76-2	X
Phosphoric acid, dibutyl ester 107-66-4	X
Formaldehyde 50-00-0	X

California Prop. 65

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
Formaldehyde	Carcinogen

Canada

Component	NPRI - National Pollutant Release Inventory
n-Butyl alcohol 71-36-3	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
Dipropylene Glycol Monomethyl Ether 34590-94-8	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
Ethylene glycol monopropyl ether 2807-30-9	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
2-Butoxyethanol 111-76-2	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
Formaldehyde 50-00-0	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
	2 *	2	0	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
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