



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Identification of the preparation CC664Series

Product use Inkjet printing

Version # 01

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2. Hazards Identification

Emergency overview Harmful by inhalation and in contact with skin. Irritating to eyes. Inhalation may result in respiratory irritation.

Acute health effects

Skin contact Avoid contact with skin.
Harmful in contact with skin.
2-Butoxyethyl acetate
Contact with skin may result in irritation. Harmful if absorbed through the skin.

Eye contact Causes eye irritation. Avoid contact with eyes. Contact with eyes may result in irritation and Irritating to eyes.
2-Butoxyethyl acetate
Contact with eyes may result in irritation.
Gamma Butyrolactone
Irritating to eyes.
Propylene Carbonate
Contact with eyes may result in irritation.

Inhalation Avoid breathing vapors or mists of this product.
Harmful if inhaled.
2-Butoxyethyl acetate
Inhalation may result in respiratory irritation.
Gamma Butyrolactone
Inhalation may result in respiratory irritation.

Ingestion May be harmful if swallowed.
2-Butoxyethyl acetate
Swallowing large amounts may cause digestive discomfort. Harmful if swallowed.
Gamma Butyrolactone
Harmful if swallowed. May depress the central nervous system.

Potential health effects

Routes of exposure Potential routes of exposure under normal use conditions are skin and eye contact; and inhalation

3. Composition / Information on Ingredients

Components	CAS #	Percent
2-Butoxyethyl acetate	112-07-2	70 - 80
Gamma Butyrolactone	96-48-0	2.5 - 5
Pigment Blue	Proprietary	2.5 - 5
Propylene Carbonate	108-32-7	2.5 - 5
Vinyl chloride-vinyl acetate copolymer	Proprietary	2.5 - 5
High molecular weight block copolymer with pigment affinic groups	No Data	1 - 2.5

4. First Aid Measures

First aid procedures

Eye contact	Do not rub eyes. In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists get medical attention.
Skin contact	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
Inhalation	Move person to fresh air immediately. If symptoms persist, get immediate medical attention.
Ingestion	If material is ingested, immediately contact a physician or poison control center.

5. Fire Fighting Measures

Flammable properties	Combustible liquid. Many liquids are lighter than water. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors may travel to a source of ignition and flash back.
Extinguishing media	
Suitable extinguishing media	Dry chemical, CO ₂ , water spray or regular foam. Avoid using a direct stream of water.
Unsuitable extinguishing media	high volume water jet
Specific methods	Do not direct a solid stream of water or foam into hot, burning pools; this may result in frothing and increase fire intensity. Standard procedure for chemical fires. In the event of fire and/or explosion do not breathe fumes. Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous combustion products	Refer to section 10. Oxides of carbon/nitrogen/sulfur, and water.

6. Accidental Release Measures

Personal precautions	Remove all sources of ignition. Avoid contact with skin. Wear appropriate personal protective equipment.
Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
Other information	Soak up with inert absorbent material. Use personal protective equipment to minimize exposure to skin and eye. Use spark-proof tools and explosion-proof equipment. Dispose of in compliance with federal, state, and local regulations.

7. Handling and Storage

Handling	Use spark-proof tools and explosion-proof equipment. Keep this product from heat, sparks, or open flame. Avoid contact with skin, eyes and clothing. Keep away from sources of ignition - No smoking. Use with adequate ventilation.
Storage	Keep away from heat, sparks and flame. Keep away from oxidizers. Store at ambient temperature and atmospheric pressure. Keep away from excessive heat or cold.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components

Components	Type	Value
2-Butoxyethyl acetate (112-07-2)	TWA	20.0000 ppm

Exposure guidelines	Exposure limits have not been established for this product.
Engineering controls	Use in a well ventilated area.
Personal protective equipment	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.
General	Use personal protective equipment to minimize exposure to skin and eye.

9. Physical & Chemical Properties

Appearance	Not available.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
Physical state	Liquid
Form	Not available.
pH	Not available.
Melting point	Not available.
Freezing point	Not available.
Boiling point	363.2 °F (184 °C)
Flash point	179.6 °F (82 °C) Cleveland Open Cup
Evaporation rate	Not determined
Flammability limits in air, upper, % by volume	< 8.4 % v/v
Flammability limits in air, lower, % by volume	> 1.7 % v/v
Vapor pressure	0.4 hPa
Vapor density	Not available.
Specific gravity	0.97
Relative density	Not available.
Solubility (water)	Not miscible
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
VOC	89.3 % w/w

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Incompatible materials	Strong oxidizing agents. This product may react with strong acids. This product may react with strong alkalies.
Hazardous decomposition products	Oxides of carbon/nitrogen/sulfur, and water. Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Carcinogenicity

ACGIH Carcinogens

2-Butoxyethyl acetate (CAS 112-07-2)	A3 Confirmed animal carcinogen with unknown relevance to humans.
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IARC Monographs. Overall Evaluation of Carcinogenicity

Gamma Butyrolactone (CAS 96-48-0)	3 Not classifiable as to carcinogenicity to humans.
Vinyl chloride-vinyl acetate copolymer (CAS Proprietary)	3 Not classifiable as to carcinogenicity to humans.

IARC Monographs: Evidence of carcinogenicity in humans

Gamma Butyrolactone (CAS 96-48-0)	Inadequate data.
Vinyl chloride-vinyl acetate copolymer (CAS Proprietary)	No data.

Serious eye damage/eye irritation Not available.

Symptoms and target organs

Target Organs (NIOSH)

2-Butoxyethyl acetate (CAS 112-07-2)

Blood
Central Nervous System
Eyes
Hemato system
Kidneys
Liver
Lymphoid system
Respiratory system
Skin

Further information Complete toxicity data are not available for this specific formulation

12. Ecological Information

Aquatic toxicity This product has not been tested for ecological effects.

Persistence and degradability Not available.

13. Disposal Considerations

Disposal instructions Dispose of in compliance with federal, state, and local regulations. Do not allow this material to drain into sewers/water supplies.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.

CERCLA (Superfund) reportable quantity

None

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Regulatory information Notified according to EU Regulations.

16. Other Information

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

HMIS® ratings Health: 2
Flammability: 2
Physical hazard: 1

NFPA ratings Health: 2
Flammability: 2
Instability: 1

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Explanation of abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds