PRIMERA TECHNOLOGY, INC.

Safety Data Sheet

Issuing Date 16-Mar-2021 **Revision date** 24-Feb-2023 **Revision Number** 2

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Description Reliable Magenta

Other means of identification

Part Number 053013, 053001

Synonyms No information available

Recommended use of the chemical and restrictions on use

Recommended Use ink.

Uses advised against No information available

Details of the supplier of the safety data sheet

Company Name

Kao Collins Inc.
1201 Edison Drive
Cincinnati, OH 45216
PH: 513-948-9000
Info@kaocollins.com

Emergency telephone number Chemtrec 1-800-424-9300

Emergency Telephone International Chemtrec: +1 703-527-3887

2. Hazards Identification

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization	Category 1
Reproductive toxicity	Category 1B

Label Elements

EMERGENCY OVERVIEW

Danger

Hazard statements

May cause an allergic skin reaction
May damage fertility or the unborn child

Appearance Magenta **Physical state** liquid **Odor** Acrylic

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required

Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Other Information
• Causes mild skin irritation
• Harmful to aquatic life
Unknown acute toxicity 5.5 % of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%	Trade secret
Alcohol	Proprietary	1 - 5	*
Lactam	Proprietary	0.1 - <2	*
Ethyl alcohol	64-17-5	0.1 - <1	*
1,2-Benzisothiazolin-3-one	2634-33-5	0.1 - <1	*

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

NOTE
Remaining components are either not hazardous or below threshold limits.

4. First aid measures

Description of first aid measures

General advice Immediate medical attention is not required. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water.

Inhalation Remove to fresh air. If symptoms persist, call a physician.

Ingestion Immediate medical attention is not required. Rinse mouth. Drink plenty of water. Do NOT induce vomiting.

Self-protection of the first aider Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms Hives.

Indication of any immediate medical attention and special treatment needed

Notes to Physician May cause sensitization of susceptible persons. Use of epinephrine may be indicated.

5. Fire-fighting measures

Suitable extinguishing media
Use Carbon dioxide (CO2) Dry chemical Alcohol resistant foam

Unsuitable extinguishing media None.

Specific hazards arising from the chemical
Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization in susceptible persons.

Explosion data
Sensitivity to Mechanical Impact No information available.
Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters
Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin and eyes. Use personal protective equipment as required.

Other Information Other Information.

Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains. Soak up with inert absorbent material.

7. Handling and Storage

Precautions for safe handling

Handling Ensure adequate ventilation. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place.

Incompatible materials Strong oxidizing agents. Acids. Chlorinated compounds.

8. Exposure Controls/Personal Protection

Control parameters

Exposure guidelines

Appropriate engineering controls

Engineering Measures Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tight sealing safety goggles.

Skin and body protection Wear protective gloves and protective clothing. For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Respiratory protection None under normal use conditions.

Hygiene Measures When using do not eat or drink. Wash contaminated clothing before reuse.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	liquid		
Appearance	Magenta	**Odor**	Acrylic
Color	No information available	**Odor Threshold**	No information available

Property	**Values**	**Remarks • Method**
pH	8 - 10	
Melting point / freezing point		
Boiling point / boiling range	No information available	
Flash point	> 100 °C	Seta Closed Cup
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	1.0-1.2	Not applicable
Water solubility	No information available	
Solubility(ies)	No information available	
Partition coefficient	No information available	
Autoignition temperature	>200 °C	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC content	No information available
Liquid Density	No information available
Bulk density	No information available

10. Stability and Reactivity

Reactivity
no data available

Chemical stability
Stable under normal conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid
Heat, flames and sparks.

Incompatible materials
Strong oxidizing agents. Acids. Chlorinated compounds.

Hazardous Decomposition Products
Carbon oxides.

11. Toxicological Information

Information on likely routes of exposure

Product Information The product has not been tested

Inhalation May cause irritation of respiratory tract. Avoid breathing vapors or mists.

Eye contact Avoid contact with eyes. May cause irritation.

IF ON SKIN Avoid contact with skin. May cause irritation. May cause sensitization by skin contact.

Ingestion Do NOT taste or swallow. May be harmful if swallowed.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lactam	= 1350 mg/kg (Rat)	-	-
Ethyl alcohol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
1,2-Benzisothiazolin-3-one 2634-33-5	= 1020 mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms No information available.

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

irritation May cause irritation to the skin and respiratory system. May cause eye irritation.
Sensitization May cause an allergic skin reaction. May cause sensitization by skin contact.
Mutagenic effects No information available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. This product contains Ethanol which is classified as a possible carcinogen when ingested in the form of an alcoholic beverage. This is irrelevant as this product is used for ink jet ink applications not an alcoholic beverage.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethyl alcohol 64-17-5	A3	Group 1	Known	X

Reproductive toxicity May impair fertility. Possible risk of impaired fertility. May cause harm to the unborn child. Possible risk of harm to the unborn child.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Chronic toxicity Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.
Target organ effects Eyes, kidney, blood, Skin.
Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown acute toxicity 5.5 % of the mixture consists of ingredient(s) of unknown toxicity

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

ATEmix (oral)	49941 mg/kg
ATEmix (dermal)	73964 mg/kg
ATEmix (inhalation-dust/mist)	26 mg/l
ATEmix (inhalation-vapor)	892.9 mg/l

12. Ecological Information

Ecotoxicity

Harmful to aquatic life

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

Chemical name	Algae/aquatic plants	Toxicity to Fish	Crustacea
Lactam	-	464 - 999: 96 h Danio rerio mg/L LC50 static	-
Ethyl alcohol 64-17-5	-	13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static	2: 48 h Daphnia magna mg/L EC50 Static 9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50

Persistence and degradability
No information available.

Bioaccumulation/Accumulation
No information available.

Chemical name	Partition coefficient
Ethyl alcohol 64-17-5	-0.32
1,2-Benzisothiazolin-3-one 2634-33-5	1.3

Other adverse effects No information available

13. Disposal Considerations

Waste treatment methods

Waste treatment methods Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not re-use empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
Ethyl alcohol 64-17-5	Toxic; Ignitable

14. Transport Information

DOT Not regulated

TDG Not regulated

MEX	Not regulated
ICAO	Not regulated
IATA	Not regulated Not regulated
IMDG/IMO	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

15. Regulatory Information

International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Alcohol	X	X	X	X	X	X	X	X
Lactam	X	X	X	X	X	-	X	-
Ethyl alcohol 64-17-5	X	X	X	X	X	X	X	X
1,2-Benzisothiazolin-3-one 2634-33-5	X	X	X	X	X	X	X	X

Legend Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not a chemical which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical name	California Prop. 65
Ethyl alcohol - 64-17-5	Carcinogen Developmental

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethyl alcohol 64-17-5	X	X	X

U.S. EPA Label Information

EPA Pesticide registration number Not applicable

16. Other Information

NFPA	**Health hazard** 1	**flammability** 1	**Instability** 0	**Physical and chemical properties** -
HMIS	**Health hazard** 1	**flammability** 1	**Physical hazards** 0	**Personal precautions** X

Prepared by
Kao Collins Inc.
1201 Edison Drive
Cincinnati, OH 45216

Issuing Date 16-Mar-2021

Revision date 24-Feb-2023

Revision note

No information available

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Description Reliable Yellow Ink

Other means of identification

Part Number **053013, 053001**

Synonyms No information available

Recommended use of the chemical and restrictions on use

Recommended Use ink.

Uses advised against No information available

Details of the supplier of the safety data sheet

Company Name

Kao Collins Inc.
1201 Edison Drive
Cincinnati, OH 45216
PH: 513-948-9000
Info@kaocollins.com

Emergency telephone number Chemtrec 1-800-424-9300

Emergency Telephone International Chemtrec: +1 703-527-3887

2. Hazards Identification

Classification

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Reproductive toxicity	Category 1B

Label Elements

EMERGENCY OVERVIEW

Danger

Hazard statements
May damage fertility or the unborn child

Appearance yellow **Physical state** liquid **Odor** Acrylic

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Other Information
• Causes mild skin irritation
Unknown acute toxicity 23.3 % of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%	Trade secret
Alcohol	Proprietary	1 - 5	*
Lactam	Proprietary	0.1 - <1	*
Ethanol	64-17-5	0.01 - <0.1	*

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

NOTE
Remaining components are either not hazardous or below threshold limits.

4. First aid measures

Description of first aid measures

General advice In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

Inhalation None under normal use conditions. Move to fresh air in case of accidental inhalation of vapors. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Drink 1 or 2 glasses of water. 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

Symptoms Hives.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media
Use Carbon dioxide (CO2) Dry chemical Alcohol resistant foam

Unsuitable extinguishing media None.

Specific hazards arising from the chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Explosion data
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters
Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for containment Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up After cleaning, flush away traces with water.

7. Handling and Storage

Precautions for safe handling

Handling Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials Strong oxidizing agents.

8. Exposure Controls/Personal Protection

Control parameters

Exposure guidelines
NIOSH IDLH: Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Measures Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tight sealing safety goggles. Wear safety glasses with side shields (or goggles). If splashes are likely to occur:.

Skin and body protection For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Respiratory protection None under normal use conditions.

Hygiene Measures Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	liquid		
Appearance	yellow	**Odor**	Acrylic
Color	No information available	**Odor Threshold**	No information available

Property	**Values**	**Remarks • Method**
pH	8.5 - 10.5	
Melting point / freezing point		
Boiling point / boiling range	> 90 °C	
Flash point	> 100 °C	Seta Closed Cup
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	1.0 - 1.1	Not applicable
Water solubility	No information available	
Solubility(ies)	No information available	
Partition coefficient	No information available	
Autoignition temperature	>200 °C	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC content	No information available
Liquid Density	No information available
Bulk density	No information available

10. Stability and Reactivity

Reactivity
no data available

Chemical stability
Stable under normal conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid
Extremes of temperature and direct sunlight.

Incompatible materials
Strong oxidizing agents.

Hazardous Decomposition Products
Carbon oxides.

11. Toxicological Information

Information on likely routes of exposure

Product Information The product has not been tested

Inhalation May cause irritation of respiratory tract. Avoid breathing vapors or mists.

Eye contact Contact with eyes may cause irritation. Avoid contact with eyes.

IF ON SKIN May cause irritation. Avoid contact with skin.

Ingestion May be harmful if swallowed. Do NOT taste or swallow.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lactam	= 1350 mg/kg (Rat)	-	-
Ethanol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms No information available.

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

irritation May cause irritation of respiratory tract. May cause skin and eye irritation.
Sensitization No information available.
Mutagenic effects No information available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. This product contains Ethanol which is classified as a possible carcinogen when ingested in the form of an alcoholic beverage. This is irrelevant as this product is used for ink jet ink applications not an alcoholic beverage.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethanol 64-17-5	A3	Group 1	Known	X

IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
NTP: (National Toxicity Program)
Known - Known Carcinogen

Reproductive toxicity Possible risk of impaired fertility. May impair fertility. May cause harm to the unborn child. Possible risk of harm to the unborn child.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown acute toxicity 23.3 % of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculated based on chapter 3.1 of the GHS document
ATEmix (oral) 49941 mg/kg
ATEmix (dermal) 149883 mg/kg
ATEmix (inhalation-dust/mist) 26 mg/l
ATEmix (inhalation-vapor) 709.8 mg/l

12. Ecological Information

Ecotoxicity

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

Chemical name	Algae/aquatic plants	Toxicity to Fish	Crustacea
Lactam	-	464 - 999: 96 h Danio rerio mg/L LC50 static	-
Ethanol 64-17-5	-	13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static	2: 48 h Daphnia magna mg/L EC50 Static 9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50

Persistence and degradability
No information available.

Bioaccumulation/Accumulation
No information available.

Mobility
No information available.

Chemical name	Partition coefficient
Ethanol 64-17-5	-0.32

Other adverse effects No information available

13. Disposal Considerations

Waste treatment methods

Waste treatment methods Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not re-use empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
Ethanol 64-17-5	Toxic; Ignitable

14. Transport Information

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

15. Regulatory Information

International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Alcohol	X	X	X	X	X	X	X	X
Lactam	X	X	X	X	X	-	X	-
Ethanol 64-17-5	X	X	X	X	X	X	X	X

Legend Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

U.S. State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals:

Chemical name	California Prop. 65
Ethanol - 64-17-5	Carcinogen Developmental

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethanol 64-17-5	X	X	X

U.S. EPA Label Information
EPA Pesticide registration number Not applicable

16. Other Information

NFPA	**Health hazard** 1	**flammability** 1	**Instability** 0	**Physical and chemical properties** -
HMIS	**Health hazard** 1	**flammability** 1	**Physical hazards** 0	**Personal precautions** X

Prepared by
Kao Collins Inc.
1201 Edison Drive
Cincinnati, OH 45216

Issuing Date 02-Apr-2020
Revision date 24-Feb-2023
Revision note
No information available

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Description Reliable Cyan

Other means of identification

Part Number 053013, 053001

Synonyms No information available

Recommended use of the chemical and restrictions on use

Recommended Use ink.

Uses advised against No information available

Details of the supplier of the safety data sheet

Company Name

Kao Collins Inc.
1201 Edison Drive
Cincinnati, OH 45216
PH: 513-948-9000
Info@kaocollins.com

Emergency telephone number Chemtrec 1-800-424-9300

Emergency Telephone International Chemtrec: +1 703-527-3887

2. Hazards Identification

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 1B

Label Elements

EMERGENCY OVERVIEW

Danger

Hazard statements

Causes serious eye damage
May damage fertility or the unborn child

Appearance Cyan **Physical state** liquid **Odor** Acrylic

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Other Information
• Causes mild skin irritation

3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%	Trade secret
Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, aminosulfonyl sulfo derivitives, sodium salts	90295-11-7	1 - 10	*
Alcohol	Proprietary	1 - 5	*
Lactam	Proprietary	0.1 - <1	*
Ethanol	64-17-5	0.01 - <0.1	*

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

NOTE
Remaining components are either not hazardous or below threshold limits.

4. First aid measures

Description of first aid measures

General advice Immediate medical attention is not required. If symptoms persist, call a physician. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Wash off immediately with soap and plenty of water. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Inhalation Remove to fresh air. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

Ingestion Immediate medical attention is not required. Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms Hives.

Indication of any immediate medical attention and special treatment needed

Notes to Physician May cause sensitization of susceptible persons. Use of epinephrine may be indicated. Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media
Use Carbon dioxide (CO_2) Dry chemical Alcohol resistant foam

Unsuitable extinguishing media None.

Specific hazards arising from the chemical
Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization in susceptible persons.

Explosion data
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters
Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin and eyes. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment as required.

Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up After cleaning, flush away traces with water. Prevent product from entering drains. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. Handling and Storage

Precautions for safe handling

Handling Ensure adequate ventilation. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

Incompatible materials Strong oxidizing agents.

8. Exposure Controls/Personal Protection

Control parameters

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Copper, [29H,31H-phthalocyaninato(2-)-N29, N30,N31,N32]-, aminosulfonyl sulfo derivitives, sodium salts 90295-11-7	TWA: 1 mg/m³	-	IDLH: 100 mg/m³ TWA: 1 mg/m³

NIOSH IDLH: Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Measures Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tight sealing safety goggles. Face protection shield.

Skin and body protection For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Respiratory protection None under normal use conditions.

Hygiene Measures Wash contaminated clothing before reuse. When using do not eat or drink. 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	Cyan	**Odor**	Acrylic
Color	No information available	**Odor Threshold**	No information available

Property	Values	Remarks • Method
pH	7 - 9	
Melting point / freezing point		
Boiling point / boiling range	> 90 °C	
Flash point	> 100 °C	Seta Closed Cup
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	1.0 - 1.1	Not applicable
Water solubility	No information available	
Solubility(ies)	No information available	
Partition coefficient	No information available	
Autoignition temperature	>200 °C	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC content	No information available
Liquid Density	No information available
Bulk density	No information available

10. Stability and Reactivity

Reactivity
no data available

Chemical stability
Stable under normal conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid
Extremes of temperature and direct sunlight.

Incompatible materials
Strong oxidizing agents.

Hazardous Decomposition Products
Carbon oxides.

11. Toxicological Information

Information on likely routes of exposure

Product Information The product has not been tested

Inhalation May cause irritation of respiratory tract. Avoid breathing vapors or mists.

Eye contact Avoid contact with eyes. Causes serious eye damage.

IF ON SKIN May cause irritation. Avoid contact with skin.

Ingestion May be harmful if swallowed. Do NOT taste or swallow.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lactam	= 1350 mg/kg (Rat)	-	-
Ethanol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms No information available.

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

Serious eye damage/eye irritation	Risk of serious damage to eyes. Irritating to eyes.
irritation	Causes serious eye damage. May cause irritation to the skin and respiratory system.
Sensitization	No information available.
Mutagenic effects	No information available.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

This product contains Ethanol which is classified as a possible carcinogen when ingested in the form of an alcoholic beverage. This is irrelevant as this product is used for ink jet ink applications not an alcoholic beverage.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethanol 64-17-5	A3	Group 1	Known	X

IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
NTP: (National Toxicity Program)
Known - Known Carcinogen

Reproductive toxicity Possible risk of impaired fertility. May impair fertility. May cause harm to the unborn child. Possible risk of harm to the unborn child.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Chronic toxicity Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 49941 mg/kg
ATEmix (dermal) 149883 mg/kg
ATEmix (inhalation-dust/mist) 26 mg/l
ATEmix (inhalation-vapor) 892.9 mg/l

12. Ecological Information

Ecotoxicity

Harmful to aquatic life

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

Chemical name	Algae/aquatic plants	Toxicity to Fish	Crustacea
Lactam	-	464 - 999: 96 h Danio rerio mg/L LC50 static	-
Ethanol 64-17-5	-	13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static	2: 48 h Daphnia magna mg/L EC50 Static 9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50

Persistence and degradability
No information available.

Bioaccumulation/Accumulation
No information available.

Mobility
No information available.

Chemical name	Partition coefficient
Ethanol 64-17-5	-0.32

Other adverse effects No information available

13. Disposal Considerations

Waste treatment methods

Waste treatment methods Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not re-use empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, aminosulfonyl sulfo derivitives, sodium salts 90295-11-7	Toxic
Ethanol 64-17-5	Toxic; Ignitable

14. Transport Information

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

15. Regulatory Information

International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, aminosulfonyl sulfo derivitives, sodium salts 90295-11-7	X	X	X	X	X	X	X	X
Alcohol	X	X	X	X	X	X	X	X
Lactam	X	X	X	X	X	-	X	-
Ethanol 64-17-5	X	X	X	X	X	X	X	X

Legend Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

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. This information must be included in all SDSs that are copied and distributed for this material.

Chemical name	SARA 313 - Threshold Values %
Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, aminosulfonyl sulfo derivitives, sodium salts - 90295-11-7	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, aminosulfonyl sulfo derivitives, sodium salts 90295-11-7	-	X	-	-

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical name	California Prop. 65
Ethanol - 64-17-5	Carcinogen Developmental

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, aminosulfonyl sulfo derivitives, sodium salts 90295-11-7	X	-	X
Ethanol 64-17-5	X	X	X

U.S. EPA Label Information

EPA Pesticide registration number Not applicable

16. Other Information

NFPA	**Health hazard** 1	**flammability** 1	**Instability** 0	**Physical and chemical properties** -
HMIS	**Health hazard** 1	**flammability** 1	**Physical hazards** 0	**Personal precautions**

X

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Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet