

# 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

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	*

<sup>\*</sup>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.

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.

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

# 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

Physical state Magenta Acrylic **Appearance** Odor

Color No information available Odor Threshold No information available

Seta Closed Cup

Not applicable

Remarks • Method\_ Property Values

8 - 10 рΗ

Melting point / freezing point

Boiling point / boiling range No information available

Flash point > 100 °C

**Evaporation rate** No information available No information available

Flammability (solid, gas)

Flammability Limit in Air

No information available Upper flammability limit: Lower flammability limit: No information available Vapor pressure No information available Vapor density No information available

Specific gravity 1.0-1.2

Water solubility No information available Solubility(ies) No information available Partition coefficient No information available

Autoignition temperature >200 °C

Decomposition temperature No information available No information available Kinematic viscosity No information available Dynamic viscosity No information available **Explosive properties** Oxidizing properties No information available

Other Information

No information available Softening point 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	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat)4 h
64-17-5			
1,2-Benzisothiazolin-3-one	= 1020 mg/kg (Rat)	-	2
2634-33-5			l .

# 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	A3	Group 1	Known	X
64-17-5		· ·		

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 effectsEyes, kidney, blood, Skin.Aspiration hazardNo 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	-	13400 - 15100: 96 h Pimephales	2: 48 h Daphnia magna mg/L
64-17-5		promelas mg/L LC50 flow-through	EC50 Static 9268 - 14221: 48 h
		12.0 - 16.0: 96 h Oncorhynchus	Daphnia magna mg/L LC50
		mykiss mL/L LC50 static 100: 96	10800: 24 h Daphnia magna
		h Pimephales promelas mg/L	mg/L EC50
		LC50 static	

#### Persistence and degradability

No information available.

#### Bioaccumulation/Accumulation

No information available.

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

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	Toxic; Ignitable
64-17-5	

# 14. Transport Information

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO\_ Not regulated

<u>IAT</u>A Not regulated Not regulated

Not regulated

IMDG/IMO Not regulated <u>RID</u> Not regulated ADR\_ Not regulated

#### 15. Regulatory Information

#### International Inventories

<u>ADN</u>

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

# 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

<u>Clean Water Act</u>
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	X	X	X
64-17-5			

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 -

<u>HMIS</u> Health hazard 1 flammability 1 Physical hazards 0 Personal precautions

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Prepared by Kao Collins Inc.

1201 Edison Drive Cincinnati, OH 45216

Issuing Date16-Mar-2021Revision date24-Fe b-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.



# Safety Data Sheet

Issuing Date 02-Apr-2020 Revision date 24-Feb-2023 Revision Number 2

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

Product identifier\_

Description Reliable Yellow Ink

Other means of identification

Part Number 053013

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

TWY1372 Reliable Yellow Ink

Revision date 24-Feb-2023

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	*

<sup>\*</sup>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

TWY1372 Reliable Yellow Ink

Revision date 23-Feb-2023

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.

Wash contaminated clothing before reuse. Handle in accordance with good industrial **Hygiene Measures** 

hygiene and safety practice.

# 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

liquid Physical state

**Appearance** yellow Acrylic Odor

Color **Odor Threshold** No information available No information available

**Property Values** Remarks • Method\_

8.5 - 10.5 pН

Melting point / freezing point

> 90 °C Boiling point / boiling range

Flash point > 100 °C Seta Closed Cup No information available **Evaporation rate** 

Flammability (solid, gas) Flammability Limit in Air No information available

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 - 1.1Not applicable

Water solubility No information available Solubility(ies) No information available Partition coefficient No information available

>200 °C Autoignition temperature

No information available **Decomposition temperature** 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

<u>Chemical stability</u> 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	A3	Group 1	Known	X
64-17-5		· ·		

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
STOT - repeated exposure
Aspiration hazard
No information available.
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

#### TWY1372 Reliable Yellow Ink

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

#### Persistence and degradability

No information available.

# Bioaccumulation/Accumulation

No information available.

#### Mobility

No information available.

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

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	Toxic; Ignitable
64-17-5	

# 14. Transport Information

DOT Not regulated TDG Not regulated MEX Not regulated <u>ICAO</u> Not regulated <u>IATA</u> Not regulated IMDG/IMO Not regulated Not regulated RID <u>ADR</u> Not regulated Not regulated <u>ADN</u>

# 15. Regulatory Information

#### International Inventories

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

#### 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)

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

<u>California Proposition 65</u>
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	X	X	X
64-17-5			

#### 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 flammability 1 HMIS\_ Health hazard 1 Physical hazards 0 Personal precautions X

Kao Collins Inc.

1201 Edison Drive Cincinnati, OH 45216

02-Apr-2020

**Issuing Date** Revision date 24-Feb-2023

Revision note

Prepared by

No information available

<u>Disclaimer</u>

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.



# **Safety Data Sheet**

Revision date 24-Feb-2023 Revision Number 1

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

Product identifier

**Description** Reliable Cyan

Other means of identification\_

Part Number 053013

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 Acrylid

**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,	90295-11-7	1 - 10	*
[29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-			
, aminosulfonyl sulfo derivitives, sodium salts			
Alcohol	Proprietary	1 - 5	*
Lactam	Proprietary	0.1 - <1	*
Ethanol	64-17-5	0.01 - <0.1	*

<sup>\*</sup>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.

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.

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#### 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 (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 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.

Strong oxidizing agents. Incompatible materials

# 8. Exposure Controls/Personal Protection

#### Control parameters

Exposure quidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Copper,	TWA: 1 mg/m <sup>3</sup>	-	IDLH: 100 mg/m <sup>3</sup>
[29H,31H-phthalocyaninato(2-)-N29,	-		TWA: 1 mg/m <sup>3</sup>
N30,N31,N32]-, aminosulfonyl sulfo			
derivitives, sodium salts			
90295-11-7			

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.

None under normal use conditions. Respiratory protection

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

cleaning of equipment, work area and clothing is recommended.

Seta Closed Cup

Not applicable

# 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

Physical state liquid

**Appearance** Cyan Odor Acrylic

No information available No information available Color **Odor Threshold** 

Property Values Remarks • Method 7 - 9

Melting point / freezing point

> 90 °C Boiling point / boiling range

Flash point > 100 °C

No information available **Evaporation rate** Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:

No information available Lower flammability limit: No information available No information available Vapor pressure Vapor density No information available

Specific gravity 1.0 - 1.1

Water solubility No information available No information available Solubility(ies) Partition coefficient No information available

>200 °C Autoignition temperature

**Decomposition temperature** No information available Kinematic viscosity Dynamic viscosity No information available **Explosive properties** No information available **Oxidizing properties** No information available

No information available

#### Other Information

Softening point
Molecular weight
No information available
NOC content
No information available
No information available
No information available
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.

# <u>Hazardous Decomposition Products</u>

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	A3	Group 1	Known	X
64-17-5				

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	-	13400 - 15100: 96 h Pimephales	2: 48 h Daphnia magna mg/L
64-17-5		promelas mg/L LC50 flow-through	EC50 Static 9268 - 14221: 48 h
		12.0 - 16.0: 96 h Oncorhynchus	Daphnia magna mg/L LC50
		mykiss mL/L LC50 static 100: 96	10800: 24 h Daphnia magna
		h Pimephales promelas mg/L	mg/L EC50
		LC50 static	

#### Persistence and degradability

No information available.

#### Bioaccumulation/Accumulation

No information available.

# **Mobility**

No information available.

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

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]-,	Toxic	
aminosulfonyl sulfo derivitives, sodium salts		
90295-11-7		
Ethanol	Toxic; Ignitable	
64-17-5		

# 14. Transport Information

DOT Not regulated TDG Not regulated Not regulated MEX ICAO Not regulated Not regulated IATA IMDG/IMO Not regulated <u>RID</u> Not regulated ADR\_ Not regulated <u>ADN</u> Not regulated

# 15. Regulatory Information

# **International Inventories**

Chemical name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Copper, [29H,31H-phthalocya ninato(2-)-N29,N30,N 31,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	Х
Lactam	Х	Х	Х	Х	Х	-	Х	-
Ethanol 64-17-5	Х	Х	Х	Х	Х	Х	Х	Х

# 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.

3				
Chemical name	SARA 313 - Threshold Values %			
Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-,	1.0			
aminosulfonyl sulfo derivitives, sodium salts - 90295-11-7				
SARA 311/312 Hazard Categories	9			
Acute health hazard	Yes			
Chronic Health Hazard	No			
Fire hazard	No			
Sudden release of pressure hazard	No			
Reactive Hazard	No			

<u>Clean Water Act</u>
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	-	Х	-	-

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

<u>California Proposition 65</u> 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,	X	-	X
[29H,31H-phthalocyaninato(2-)-N29,			
N30,N31,N32]-, aminosulfonyl sulfo			
derivitives, sodium salts			
90295-11-7			
Ethanol	X	X	X
64-17-5			

#### 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		

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Prepared by

Kao Collins Inc. 1201 Edison Drive Cincinnati, OH 45216

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No information available

<u>Disclaimer</u>

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** 

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