

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 053003

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

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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

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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 upAfter 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

Seta Closed Cup

Property Values Remarks • Method_

8.5 - 10.5 pН

Melting point / freezing point

> 90 °C Boiling point / boiling range Flash point > 100 °C

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.

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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.

SensitizationNo information available.Mutagenic effectsNo 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

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
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	Х	X	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 🖃

HMIS Health hazard 1 flammability 1 Physical hazards 0 Personal precautions X

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