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

Product identifier
Description: Reliable Magenta

Other means of identification
Part Number: 053002
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

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>Trade secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol</td>
<td>Proprietary</td>
<td>1 - 5</td>
<td>*</td>
</tr>
<tr>
<td>Lactam</td>
<td>Proprietary</td>
<td>0.1 - &lt;2</td>
<td>*</td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>0.1 - &lt;1</td>
<td>*</td>
</tr>
<tr>
<td>1,2-Benzisothiazolin-3-one</td>
<td>2634-33-5</td>
<td>0.1 - &lt;1</td>
<td>*</td>
</tr>
</tbody>
</table>

*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

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>8 - 10</td>
<td></td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No info</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No info</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 100 °C</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No info</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No info</td>
<td></td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td>No info</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No info</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No info</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No info</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No info</td>
<td></td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.0-1.2</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No info</td>
<td></td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>No info</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No info</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>&gt;200 °C</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No info</td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No info</td>
<td></td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>No info</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No info</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No info</td>
<td></td>
</tr>
</tbody>
</table>

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

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.

#### 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 a lications not an alcoholic beverage.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>A3</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
</tbody>
</table>

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

**STOT - single exposure**
No information available.

**STOT - repeated exposure**
Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.

**Chronic toxicity**

**Target organ effects**
Eyes, kidney, blood, Skin.

**Aspiration hazard**
No information available.

#### Numerical measures of toxicity - Product Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lactam</td>
<td>= 1350 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>= 7060 mg/kg (Rat)</td>
<td>-</td>
<td>= 124.7 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>1,2-Benzenoisothiazolin-3-one 2634-33-5</td>
<td>= 1020 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Toxicity to Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lactam</td>
<td>-</td>
<td>464 - 999: 96 h Danio rerio mg/L LC50 static</td>
<td>-</td>
</tr>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>-</td>
<td>13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through</td>
<td>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</td>
</tr>
</tbody>
</table>

#### Persistence and degradability

No information available.

#### Bioaccumulation/Accumulation

No information available.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>-0.32</td>
</tr>
<tr>
<td>1,2-Benzisothiazolin-3-one 2634-33-5</td>
<td>1.3</td>
</tr>
</tbody>
</table>

#### Other adverse effects

No information available.

### 13. Disposal Considerations

#### 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.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>Toxic; Ignitable</td>
</tr>
</tbody>
</table>

### 14. Transport Information

#### DOT
Not regulated

#### TDG
Not regulated
### International Inventories

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>TSCA</th>
<th>DSL/NDSL</th>
<th>EINECS/ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Lactam</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2-Benzisothiazolin-3-one</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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** - Australia 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**

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute health hazard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Fire hazard</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Sudden release of pressure hazard</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

**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:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Prop 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol - 64-17-5</td>
<td>Carcinogen, Development</td>
</tr>
</tbody>
</table>

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

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

16. Other Information

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health hazard</th>
<th>1</th>
<th>Flammability</th>
<th>1</th>
<th>Instability</th>
<th>0</th>
<th>Physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>Health hazard</td>
<td>1</td>
<td>Flammability</td>
<td>1</td>
<td>Physical hazards</td>
<td>0</td>
<td>Personal precautions</td>
</tr>
</tbody>
</table>

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.

End of Safety Data Sheet