

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product Code(s) TWK1915H

Product name CORE Ink

Synonyms None  
Pure substance/mixture Mixture  
Contains Benisothiazolinone

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use ink

Uses advised against No information available

### 1.3. 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  
For further information, please contact

### 1.4. Emergency telephone number

Emergency telephone number Chemtrec 1-800-424-9300

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

## Section 2: HAZARD IDENTIFICATION

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)

### 2.2. Label elements

Product identifier  
Contains Benisothiazolinone



Signal word  
Warning

Hazard statements

H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation

#### Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear eye protection/ face protection

P321 - Specific treatment (see supplemental first aid instructions on this label)

### 2.3. Other hazards

May be harmful if swallowed. Causes mild skin irritation. Combustible liquid.

#### General Hazards

May cause skin and eye irritation.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical Name	EC No	CAS-No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Reg. No
Lactam	Listed	-	1 - 10	Eye Irrit. 2 (H319)	No data available
Alcohol	Listed	-	1 - 5	Acute Tox. 5 (H303) Skin Irrit. 2 (H315) Eye Irrit. 2B (H320) Acute Tox 5 (H333)	No data available
Triethanolamine	EEC No. Present	102-71-6	1 - 5	Eye Irrit. 2 (H319)	No data available
Benzisothiazolinone	EEC No. Present	2634-33-5	0.01 - <0.1	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)	No data available

**Full text of H- and EUH-phrases: see section 16**

#### NOTE

Remaining components are either not hazardous or below threshold limits.

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General advice</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Immediate medical attention is not required.
<b>Inhalation</b>	Remove to fresh air. If symptoms persist, call a physician.
<b>Skin Contact</b>	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.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water. Immediate medical attention is not required. Rinse mouth.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required.

### 4.2. Most important symptoms and effects, both acute and delayed

### 4.3. 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.

**Section 5: FIRE-FIGHTING MEASURES****5.1. Extinguishing media****Suitable extinguishing media**

Use. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Alcohol resistant foam.

**Unsuitable extinguishing media**

None

**5.2. Special hazards arising from the substance or mixture**

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.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit.

**Section 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures****Personal precautions**

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

**For emergency responders**

Use personal protection recommended in Section 8.

**6.2. 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.

**6.3. 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. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Prevent product from entering drains.

**6.4. Reference to other sections**

See section 7 for more information.

**Section 7: HANDLING AND STORAGE****7.1. Precautions for safe handling****Handling**

Use personal protective equipment as required. Ensure adequate ventilation.

**Hygiene Measures**

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

**7.2. Conditions for safe storage, including any incompatibilities****Storage**

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

**7.3. Specific end use(s)****Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Humectant		STEL: 30 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	VLA-ED: 10 mg/m <sup>3</sup> VLA-ED	TWA: 200 mg/m <sup>3</sup>
Carbon black 1333-86-4		STEL: 7 mg/m <sup>3</sup> TWA: 3.5 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>	VLA-ED: 3.5 mg/m <sup>3</sup> VLA-ED	
Triethanolamine 102-71-6				VLA-ED: 5 mg/m <sup>3</sup> VLA-ED	
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Humectant		TWA: 10 mg/m <sup>3</sup>	MAC: 10 mg/m <sup>3</sup> MAC (mist)	TWA: 20 mg/m <sup>3</sup>	
Carbon black 1333-86-4		TWA: 3.5 mg/m <sup>3</sup>	MAC: 3.5 mg/m <sup>3</sup> MAC	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>
Triethanolamine 102-71-6		TWA: 5 mg/m <sup>3</sup>	MAC: 5 mg/m <sup>3</sup> MAC	TWA: 5 ppm	TWA: 0.5 ppm TWA: 3.1 mg/m <sup>3</sup>
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Humectant		STEL: 100 mg/m <sup>3</sup>	NDS: 10 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>
Carbon black 1333-86-4			NDS: 4.0 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>
Triethanolamine 102-71-6	STEL 1.6 ppm STEL (inhalable fraction); 10 mg/m <sup>3</sup> STEL (inhalable fraction) MAK: 0.8 ppm MAK (inhalable fraction); 5 mg/m <sup>3</sup> MAK (inhalable fraction)	STEL: 10 mg/m <sup>3</sup>		TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

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

**Personal Protective Equipment**

<b>Eye/Face Protection</b>	Tight sealing safety goggles.
<b>Hand protection</b>	For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.
<b>Skin and body protection</b>	Suitable protective clothing.
<b>Respiratory protection</b>	None under normal use conditions.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	liquid	<b>Odor</b>	slight amine
<b>Appearance</b>	Black	<b>Odor Threshold</b>	No information available
<b>Color</b>	No information available		

<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
pH		No information available

Melting point / freezing point		No information available
Boiling point/range (°C) VALUE		No information available
Flash point	> 70 °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
Relative density	0.9 - 1.1	No information available
Water solubility		No information available
Solubility(ies)	Soluble in water	No information available
Partition coefficient		No information available
Autoignition temperature	>200 °C	No information available
Decomposition temperature		No information available
Kinematic viscosity		No information available
Dynamic viscosity	< 15 cps	No information available
Explosive properties	No information available	
Oxidizing properties	No information available	

## **9.2. Other information**

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

## **Section 10: STABILITY AND REACTIVITY**

### **10.1. Reactivity**

No data available.

### **10.2. Chemical stability**

Stable under normal conditions.

#### Explosion data

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

### **10.3. Possibility of hazardous reactions**

#### **Hazardous polymerization**

Hazardous polymerization does not occur.

#### **Hazardous Reactions**

None under normal processing.

### **10.4. Conditions to avoid**

### **10.5. Incompatible materials**

Strong oxidizing agents.

### **10.6. Hazardous decomposition products**

Carbon oxides.

## **Section 11: TOXICOLOGY INFORMATION**

### **11.1. Information on toxicological effects**

#### **Acute toxicity**

**Product Information**

The product has not been tested.

<b>Inhalation</b>	Inhalation of vapors in high concentration may cause irritation of respiratory system. May cause irritation of respiratory tract. Avoid breathing vapors or mists.
<b>Eye contact</b>	Causes serious eye irritation. Avoid contact with eyes.
<b>IF ON SKIN</b>	May cause irritation. May discolor the skin. Avoid contact with skin.
<b>Ingestion</b>	May cause gastrointestinal discomfort if consumed in large amounts. May be harmful if swallowed. Do NOT taste or swallow.

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

<b>ATEmix (oral)</b>	2,961.00 mg/kg
<b>ATEmix (dermal)</b>	13,802.00 mg/kg
<b>ATEmix (inhalation-vapor)</b>	446.00 mg/l

**Unknown acute toxicity**

32.5733549 % of the mixture consists of ingredient(s) of unknown toxicity.  
 0.0253549 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.  
 4.0253549 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.  
 32.5733549 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).  
 28.5733549 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).  
 32.5733549 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Lactam	= 328 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 80 ppm ( Rat ) 8 h
Triethanolamine	= 4190 mg/kg ( Rat )	> 20000 mg/kg ( Rabbit ) > 16 mL/kg ( Rat )	
Benzisothiazolinone	= 1020 mg/kg ( Rat )		

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	Risk of serious damage to eyes. Irritating to eyes.
<b>Sensitization</b>	May cause an allergic skin reaction.
<b>Mutagenic effects</b>	No information available.
<b>Carcinogenic effects</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Target organ effects</b>	Eyes, kidney, blood, Skin.
<b>Aspiration hazard</b>	No information available.

## Section 12: ECOLOGICAL INFORMATION

**12.1. Toxicity****Ecotoxicity effects**

Not Established.

Contains 6.53076 % of components with unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
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Lactam	250: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 84: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	4600 - 10000: 96 h <i>Brachydanio rerio</i> mg/L LC50 static	3.4: 96 h <i>Daphnia magna</i> mg/L LC50
Triethanolamine	216: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 169: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	450 - 1000: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 10600 - 13000: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 1000: 96 h <i>Pimephales promelas</i> mg/L LC50 static	1386: 24 h <i>Daphnia magna</i> mg/L EC50

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

Chemical Name	Partition coefficient
Lactam	-0.71
Triethanolamine	-2.53
Benzisothiazolinone	1.3

**12.4. Mobility in soil****Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects**

No information available

## Section 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods****Waste from residues/unused products**

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

**Contaminated packaging**

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

**Other Information**

According to the European Waste Catalog, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

## Section 14: TRANSPORT INFORMATION

**IMDG/IMO**

14.1 UN-No	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according to Annex II of MARPOL and the IBC	No information available

**Code****RID**

14.1 UN-No	Not Regulated
14.2 Proper shipping name	Not Regulated
14.3 Hazard Class	Not Regulated
14.4 Packing group	Not Regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

**ADR**

14.1 UN-No	Not Regulated
14.2 Proper shipping name	Not Regulated
14.3 Hazard Class	Not Regulated
14.4 Packing group	Not Regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

**IATA**

14.1 UN-No	Not Regulated
14.2 Proper shipping name	Not Regulated
14.3 Hazard Class	Not Regulated
14.4 Packing group	Not Regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

<b>Section 15: REGULATORY INFORMATION</b>
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**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009** Not applicable

**International Inventories**

Component	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Lactam ( 1 - 10 )	X	X	X	X	X	X	X	X
Alcohol ( 1 - 5 )	X	X	X	X	X	X	X	X
Triethanolamine 102-71-6 ( 1 - 5 )	X	X	X	X	X	X	X	X
Benzisothiazolinone 2634-33-5 ( 0.01 - <0.1 )	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

### **15.2. Chemical safety assessment**

No information available

## **Section 16: OTHER INFORMATION**

### **Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed  
H303 - May be harmful if swallowed  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H320 - Causes eye irritation  
H333 - May be harmful if inhaled  
H400 - Very toxic to aquatic life

### **Legend**

SVHC: Substances of Very High Concern for Authorization:

### **Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

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**Reason for revision** No information available.

**Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008**

### **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**