

Issuing Date 11-Feb-2015

Revision date 11-Feb-2015

Revision Number 1

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

Product identifier

Product name BEAR

5780255, 5780255FX,
5780 256, 5780256FX

Other means of identification

Product Code(s) TSK2039

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

Manufacturer:

Collins Inkjet Corporation
1201 Edison Drive
Cincinnati, Ohio 45216
PH: 513-948-9000
Info@collinsinkjet.com

Emergency telephone number Chemtrec 1-800-424-9300

2. Hazards Identification

Classification

OSHA Regulatory Status

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

Flammable Liquids

Category 2

Label elements

EMERGENCY OVERVIEW

DANGER

Hazard statements

Highly flammable liquid and vapor



Appearance black

Physical state liquid

Odor Alcohol

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use explosion-proof electrical/ventilating/lighting/./? /equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge
 Wear protective gloves/protective clothing/eye protection/face protection

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)**OTHER INFORMATION**

- Toxic to aquatic life with long lasting effects
- Toxic to aquatic life

3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Ethyl alcohol	64-17-5	60 - 99	*
Chromium Complex azo dye mixture	PROPRIETARY	1 - 5	*
Isopropyl alcohol	67-63-0	1 - 5	*
Glycol Ether	Proprietary	1 - 5	*

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

NOTE

Chromium Complex azo dye mixture does not contain Chromium (VI). Remaining components are either not hazardous or below threshold limits.

4. First aid measures

FIRST AID MEASURES

General advice	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Immediate medical attention is required.
Eye contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
IF ON SKIN	Wash off immediately with plenty of water.
Inhalation	If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Rinse mouth with water and afterwards drink plenty of water or milk. Call a physician or poison control center immediately. Rinse mouth.
Self-protection of the first aider	Remove all sources of ignition.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects Hives.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Use Alcohol resistant foam Dry chemical Carbon dioxide (CO2) Water spray

Unsuitable extinguishing media Decomposition by contact with water may generate vapors which can be ignited by heat or open flame.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Carbon oxides.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation.

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 Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers.

7. Handling and Storage

Precautions for safe handling

Handling Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Keep tightly closed in a dry and cool place. Keep in properly labeled containers.

Incompatible Products Strong oxidizing agents. Acids. Chlorinated compounds.

8. Exposure Controls/Personal Protection

Control parameters

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl alcohol 64-17-5	1000 ppm STEL	TWA: 1000 ppm TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³
Isopropyl alcohol 67-63-0	400 ppm STEL TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³
Glycol Ether	150 ppm STEL TWA: 100 ppm	TWA: 100 ppm TWA: 600 mg/m ³	IDLH: 600 ppm TWA: 100 ppm TWA: 600 mg/m ³ STEL: 150 ppm STEL: 900 mg/m ³

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** Wear safety glasses with side shields (or goggles). If splashes are likely to occur: Goggles.
- Skin and body protection** For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.
- Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures When using do not eat or drink. Regular cleaning of equipment, work area and clothing is recommended.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	liquid	Odor	Alcohol
Appearance	black	Odor Threshold	No information available
color	No information available		
Property	Values	Remarks/ • method	
pH	5 - 7		
Melting point / freezing point			
Boiling point / boiling range	70 °C		
Flash Point	< 20.9 °C	Seta closed cup	
Evaporation Rate	No information available		
flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper Flammability Limit	No information available		
Lower Flammability Limit	No information available		
Vapor Pressure	No information available		
Vapor Density	No information available		
Specific gravity	0.80 - 0.90	None known	
Water solubility	Practically insoluble (~0.4 ug/mL)		

Solubility in other solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	>200 °C
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

OTHER INFORMATION

Softening point	No information available
Molecular weight	No information available
VOC Content	No information available
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	None under normal processing.
---------------------------------	-------------------------------

Conditions to avoid

Heating in air. 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.
Ingestion	MAY BE HARMFUL IF SWALLOWED. Do NOT taste or swallow.

Information on toxicological effects

Symptoms	No information available.
-----------------	---------------------------

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

Sensitization	No information available.
Mutagenic effects	No information available.

Carcinogenicity

This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B). 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. The list below indicates any ingredient listed as a carcinogen:

Chemical name	ACGIH	IARC	NTP	OSHA
Ethyl alcohol 64-17-5	-	Group 1	Known	X
Isopropyl alcohol 67-63-0	-	Group 3	-	X

ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Chronic toxicity

Contains a known or suspected reproductive toxin.

Target organ effects

EYES, Lungs, Respiratory System, skin, Central Nervous System (CNS), blood, kidney, liver, Reproductive System.

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)	7291 mg/kg
ATEmix (dermal)	78896 mg/kg
ATEmix (inhalation-dust/mist)	147 mg/l

12. Ecological Information**ecotoxicity**

0.891% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Ethyl alcohol 64-17-5	-0.32
Isopropyl alcohol 67-63-0	0.05
Glycol Ether	-0.064

Other adverse effects

..?

13. Disposal Considerations**Waste treatment methods****Waste treatment methods**

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

Contaminated packaging

Do not re-use empty containers.

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

Chemical name	California Hazardous Waste Status
Ethyl alcohol 64-17-5	Toxic; Ignitable
Isopropyl alcohol 67-63-0	Toxic, Ignitable

14. Transport Information

DOT Not regulated

TDG Not regulated

MEX Not regulated

IATA

UN-No UN1210
Hazard Class 3
Packing group II

ADN Not regulated

15. Regulatory information

International Inventories

Chemical name	TSCA	DSL/NDL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Ethyl alcohol 64-17-5	X	X	X	X	X	X	X	X
Isopropyl alcohol 67-63-0	X	X	X	X	X	X	X	X
Glycol Ether	X	X	X	X	X	X	X	X

Legend

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU 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 All the components of this product are listed or are exempted on the Philippine Inventory of Chemicals and Chemical Substances (PICCS). No component of this product is listed on the Priority Chemical List (PCL). No component of this product is listed on the Chemical Control Order (CCO) list. No component of this product is regulated by the Philippine Drug Enforcement Agency (PDEA). No component of this product is regulated by the Philippine National Police (PNP).
- 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 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

Chemical name	SARA 313 - Threshold Values %
Isopropyl alcohol - 67-63-0	1.0
Glycol Ether -	1.0

SARA 311/312 Hazard Categories

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

Clean Water Act

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

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Isopropyl alcohol 67-63-0	-	-	-	x

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethyl alcohol 64-17-5	X	X	X
Isopropyl alcohol 67-63-0	X	X	X
Glycol Ether	X	X	X
Hexylene glycol 107-41-5	X	X	X

U.S. EPA Label Information

EPA Pesticide registration number Not applicable

16. Other information

NFPA	Health hazard 2	flammability 3	Instability 0	Physical and chemical properties -
HMIS	Health hazard 2	flammability 3	Physical hazards 0	Personal precautions X

Issuing Date 11-Feb-2015

Revision date 11-Feb-2015

Revision note
No information available

Disclaimer

The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet