

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) 2015/830

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Name: Ink, Glass Marking VI

Product Code: 51-0060-01

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

Product Use: Printing ink for use in BestCode CIJ

1.3 Details of the supplier of the safety data sheet

BestCode

3034 SE Loop 820

Fort Worth, TX 76140

817-349-8555

For further information, please contact Customer Service:

Customer Service: 817-349-8555

Email: Info@Bestcode.co

1.4 Emergency telephone number

Emergency Contact: Local Poison Information Center

Chem Tel. Inc. Toll Free 800-255-3924

International 813-248-0585

Section 2: Hazards identification

2.1 Classification of the mixture in accordance with Article 40 of Regulation (EC) No 1272/2008

GHS Rating:

EUH066; Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; Aquatic Chronic 3: H412;

2.2 Label elements



Signal word: Danger

Hazard statements:

EUH066 - Repeated exposure may cause skin dryness or cracking.



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Flam. Liq. 2: H225 - Highly flammable liquid and vapor.

Eye Irrit. 2: H319 - Causes serious eye irritation.

STOT SE 3: H336 - May cause drowsiness or dizziness.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements:

No data available.

2.3 Other Hazards

No data available.

Section 3: Composition/information on ingredients

3.1 Substances:

3.2 Mixtures:

CAS #	EC #	Hazardous components / REACH Registration No.	Concentration	GHS Classification
78-93-3	201-159-0	Methyl Ethyl Ketone	60 - 70%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;
61901-87-9	403-720-7	Metal Complex Black Dye 29	1 - 10%	Aquatic Chronic 2: H411;
64-17-5	200-578-6	Ethanol	1 - 10%	Flam. Liq. 2: H225;
		Proprietary 2	0 - 0.5%	Skin Sens. 1: H317; Eye Dam. 1: H318; Acute Tox. 4: H332;

Section 4: First Aid Measures

4.1 Description of first aid measures

Inhalation Move the exposed person to fresh air. Seek medical attention.

Eyes: Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.

Skin: Wash off immediately with plenty of soap and water. Remove contaminated clothing. Treat as for inhalation if any signs of poisoning are present.
Ingestion: DO NOT INDUCE VOMITING. Seek medical attention.

4.2 Most Important symptoms and effects, both acute and delayed

Inhalation Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Inhalation of vapor may cause shortness of breath.

Eye contact May cause irritation to eyes.

Skin contact May cause irritation to skin. Repeated exposure may cause skin dryness or cracking.

Ingestion Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system.
Ingestion may cause nausea and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to doctor: -

Section 5: Fire Fighting Measures

5.1 Extinguishing media

Extinguishing media. Alcohol resistant foam. Carbon dioxide (CO₂). Dry powder or water fog. Water spray, fog or mist. Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes. Highly flammable liquid and vapor. Vapors are heavier than air.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Wear: Self-contained breathing apparatus. Protective equipment.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Avoid contact with skin and eyes.

6.1.2 For emergency responders

Avoid contact with skin and eyes.

6.2 Environmental Precautions

Advise local authorities if large spills cannot be contained. Do not allow product to enter drains. Prevent further spillage if safe.

6.3 Methods and material for containment and cleaning up

6.3.1 For Containment:

Transfer to suitable, labelled containers for disposal.

6.3.2 Clean up and disposal of spill:

Clean spillage area thoroughly with plenty of water. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

Section 7: Handling and storage

7.1 Precautions for safe handling

Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with skin and eyes. Ensure adequate ventilation of the working area.

7.2 Conditions for safe storage, including any compatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers. Keep away from sources of ignition - No smoking.

7.3 Specific end use(s)

Fluid delivery to BestCode Series 8 CIJ. Follow safety instructions outlined in 7.1 & 7.2 while handling. Observe warnings provided with BestCode Series 8 CIJ system when installing and handling fluids.

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Section 8: Exposure control/personal protection

8.1 Control parameters

CAS #	Hazardous components	ACGIH TLV	Australia	Austria
78-93-3	Methyl Ethyl Ketone	200 ppm/8 hour		TWAs - 100 ppm
64-17-5	Ethyl alcohol	TLV: 1000 ppm	TWA: 1900 mg/m ³ (1000 ppm) STEL: 3800 mg/m ³ (2000 ppm)	TWA: 1880 mg/m ³ (1000 ppm) STEL: ()

CAS #	Hazardous components	Belgium OEL	California, USA	Ontario, CA
78-93-3	Methyl Ethyl Ketone	200 ppm TWA	PELs 200 ppm STELs 300 ppm	STELs 300 ppm PELs 200 ppm
64-17-5	Ethyl alcohol	TWA: 1907 mg/m ³ (1000 ppm)	TWA: 1900 mg/m ³ (1000 ppm)	STEL: 1000 ppm

CAS #	Hazardous components	China	Québec, CA	German AGS
78-93-3	Methyl Ethyl Ketone		STELs 100 ppm PELs 50 ppm	
64-17-5	Ethyl alcohol		TWA: 1880 mg/m ³ (1000 ppm)	TWA: 960 mg/m ³ (500 ppm) STEL: 1920 mg/m ³ (1000 ppm) (15 min)

CAS #	Hazardous components	Germany MAK/TRK	Denmark OEL	Spain OEL
78-93-3	Methyl Ethyl Ketone	200 ppm TWA	50 ppm TWA	
64-17-5	Ethyl alcohol	TWA: 1900 mg/m ³ (1000 ppm) STEL: 3800 mg/m ³ (2000 ppm)	TWA: 1900 mg/m ³ (1000 ppm) STEL: 3800 mg/m ³ (2000 ppm)	STEL: 1910 mg/m ³ (1000 ppm)

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		ppm) (60min) (3x) TWA: 960 mg/m ³ (500 ppm)		
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CAS #	Hazardous components	Europe	Finland OEL	France VL
78-93-3	Methyl Ethyl Ketone		STELs 100 ppm	300 ppm STEL 200 ppm TWA
64-17-5	Ethyl alcohol		TWA: 1900 mg/m ³ (1000 ppm) STEL: 2500 mg/m ³ (1300 ppm) (15 min)	TWA: 1900 mg/m ³ (1000 ppm) STEL: 9500 mg/m ³ (5000 ppm)

CAS #	Hazardous components	Hungary OEL	Ireland OEL	Italy OEL
78-93-3	Methyl Ethyl Ketone	900 mg/m ³ STEL 600 mg/m ³ TWA	300 ppm STEL 200 ppm TWA	300 ppm STEL 200 ppm TWA
64-17-5	Ethyl alcohol	TWA: 1900 mg/m ³ STEL: 7600 mg/m ³	STEL: 1000 ppm (15 min)	

CAS #	Hazardous components	South Korea	Latvia OEL	Mexico OEL
78-93-3	Methyl Ethyl Ketone	STELs 300 ppm TWAs 200 ppm	300 ppm STEL 67 ppm TWA	300 ppm STEL 200 ppm TWA
64-17-5	Ethyl alcohol	TWA: 1900 mg/m ³ (1000 ppm)	TWA: 1000 mg/m ³	TWA: 1900 mg/m ³ (1000 ppm) STEL: ()

CAS #	Hazardous components	Malaysia OEL	NIOSH	Netherlands OEL
78-93-3	Methyl Ethyl Ketone		STELs 300 ppm TWAs 200 ppm	
64-17-5	Ethyl alcohol	TWA: 1880 mg/m ³ (1000 ppm)	TWA: 1900 mg/m ³ (1000 ppm)	TWA: 260 mg/m ³ STEL: 1900 mg/m ³

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CAS #	Hazardous components	New Zealand	OSHA PELs	Poland
78-93-3	Methyl Ethyl Ketone	STELs 300 ppm TWAs 150 ppm	200 ppm/8 hour	STELs 900 mg/m ³ TWAs 450 mg/m ³
64-17-5	Ethyl alcohol	TWA: 1880 mg/m ³ (1000 ppm)	PEL: 1000 ppm	TWA: 1900 mg/m ³

CAS #	Hazardous components	Sweden OEL	Singapore	Britain EH40
78-93-3	Methyl Ethyl Ketone		PELs 200 ppm STELs 300 ppm	
64-17-5	Ethyl alcohol	TWA: 1000 mg/m ³ (500 ppm) STEL: 1900 mg/m ³ (1000 ppm) (15 min)	TWA: 1880 mg/m ³ (1000 ppm)	TWA: 1920 mg/m ³ (1000 ppm) STEL: ()

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

Ensure adequate ventilation of the working area.

8.2.2 Individual protection measures, such as personal protective equipment

Wear chemical protective clothing. Suitable foot protection e.g. boots. Wear suitable protective clothing. Wear suitable gloves and eye/face protection.

Eye/Face protection:	Approved safety goggles.
Skin protection:	Chemical resistant gloves (PVC). Wear suitable protective clothing and gloves.
Respiratory protection:	Self-contained breathing apparatus.
Hygienic Practices:	DO NOT SMOKE IN WORK AREA! Promptly remove contaminated clothing. Wash immediately if skin becomes contaminated. Do not eat or drink in work area while using this product. Wash thoroughly at the end of the workday, before eating and using the restroom.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Black liquid		
Odor:	Characteristic	Odor threshold:	No data available
pH:	No data available	Melting point:	No data available
Boiling range:	79 °C	Flash point:	-4 °C
Evaporation rate:	No data available	Upper Explosive Limit:	No data available
	No data available	Lower Explosive Limit:	No data available
Flammability:	No data available	Vapor Pressure:	No data available
Vapor density:	No data available	Relative Density:	0.862 (H ₂ O = 1 @ 20 °C)
Solubility(ies):	Slightly soluble in water	Partition coefficient n-octanol/water:	No data available
Auto-ignition temperature:	No data available	Decomposition temperature:	No data available
Viscosity:	No data available		No data available
Explosive properties:	No data available		
Oxidizing properties:	No data available		

9.2 Other information:

Miscibility:	No data available	VOC:	643 g/l
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Section 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid:

Heat, sparks and open flames.

10.5 Incompatible materials:

Strong oxidizing agents.

10.6 Hazardous decomposition products

No data available.

Section 11: Toxicological information

11.1 Information on Toxicological effects

Acute toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard	No data available

11.1.1 Hazard Class information:

No data available

11.1.2 Mixture toxicity:

Methyl Ethyl Ketone

Inhalation Rat LC50/8 h: 23500 mg/m³

Oral Rat LD50: 2737 mg/kg

Oral Mouse LD50: 2190 mg/kg

Dermal Rabbit LD50: 6480 mg/kg

Metal Complex Black Dye 29

Dermal Rat LD50: 2000 mg/kg

Oral Rat LD50: 5000 mg/kg

Oral Mouse LD50: 2.202 mg/kg

Inhalation Rat LC50/4 h: 5.9 mg/kg

11.1.3 Critical studies:

No data available

11.1.4 Non-compliance hazard class:

No data available

11.1.5 Information on likely routes of exposure:

No data available

11.1.6 Symptoms related to the physical, chemical and toxicological characteristics:

No data available

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

No data available

11.1.8 Interactive effects:

No data available

11.1.9 Absence of specific data:

No data available

11.1.10 Mixtures:

No data available

11.1.11 Mixture vs Substance information:

No data available

11.1.12 Other information:

No data available

Section 12: Ecological information

12.1 Toxicity:

Metal Complex Black Dye 29

Daphnia EC50/48h: 1000 mg/l

Algae IC50/72h: 100 mg/l

Fish LC50/96h: 100 mg/l

12.2 Persistence and degradability:

No data available

12.3 Bioaccumulative potential:

No data available

12.4 Mobility in soil:

No data available

12.5 Results of PBT and vPvB assessment:



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No data available

12.6 Other adverse effects:

No data available

Section 13: Disposal considerations

13.1 Waste treatment methods:

This product and it's container must be disposed of in accordance with all local and national regulations.

Section 14: Transport information

14.1	UN number:	1210
14.2	Proper shipping name:	
	US DOT:	Printing Ink Related Material.
	Canadian TDG:	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
	European ADR/RID:	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
	IMDG/IMO:	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
	ICAO/IATA:	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
14.3	Transport hazard class(es) :	3 - FLAMMABLE LIQUID
14.4	Packing group:	II
14.5	Environmental hazards:	N/A
14.6	Special precautions for user:	N/A
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	
		N/A

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Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists				
CAS #	Hazardous components	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
78-93-3	Methyl Ethyl Ketone	None	None	None
64-17-5	Ethyl alcohol	No	No	No

CAS #	Hazardous components	Canadian NPRI	Canadian Toxic	Canadian DSL
78-93-3	Methyl Ethyl Ketone	1 tonne		Listed
64-17-5	Ethyl alcohol	Yes	No	Yes

CAS #	Hazardous components	CAA HAP, ODC	CWA NPDES	TSCA
78-93-3	Methyl Ethyl Ketone	None		None
64-17-5	Ethyl alcohol	No	No	Yes - Inv

CAS #	Hazardous components	CA Prop 65	Mexico INSQ	Australia ICS
78-93-3	Methyl Ethyl Ketone		Listed	Listed
64-17-5	Ethyl alcohol	No	Listed	Listed

CAS #	Hazardous components	New Zealand IOC	China IECS	Japan ENCS
78-93-3	Methyl Ethyl Ketone	Listed	Listed	Listed
64-17-5	Ethyl alcohol	Listed	Listed	Yes - 5-153

CAS #	Hazardous components	Japan ISHL	Korea ECL	Philippines
78-93-3	Methyl Ethyl Ketone	Listed	Listed	Listed
64-17-5	Ethyl alcohol	No	Yes KE-13217	Listed

CAS #	Hazardous components	Taiwan TCSCA	Singapore HSL	Israel HSL:



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78-93-3	Methyl Ethyl Ketone	Listed		
64-17-5	Ethyl alcohol	Listed	No	Yes -Cat

CAS #	Hazardous components	Germany WHCS	Switzerland Giftliste 1	Switzerland INNS
78-93-3	Methyl Ethyl Ketone			
64-17-5	Ethyl alcohol	Yes – 96	Yes G-1158	No

CAS #	Hazardous components	REACH	Kyoto GHG	Rotterdam
78-93-3	Methyl Ethyl Ketone	None		
64-17-5	Ethyl alcohol	Yes - (R), (P)	No	No

CAS #	Hazardous components	Stockholm		
78-93-3	Methyl Ethyl Ketone			
64-17-5	Ethyl alcohol	No		

Canadian WHMIS Classification:

15.2 Chemical safety assessment

Section 16: Other information

Revision Date: 1/12/19

Revision Notes:

Additional Information:

Company Disclaimer:

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