

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, FastDry White Opaque**

Product Code: **51-0008-01**

### **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](mailto: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:**

Flammable liquid, Category 2

Serious eye damage/Eye irritation, Category 2

Specific Target Organ Toxicity, Single Exposure –Narcotic Effects, Category 3

### **2.2 Label elements**



Signal word:

Danger



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## Hazard statements:

H225 Highly flammable liquid and vapor  
H319 Causes serious eye irritation  
H336 May cause drowsiness or dizziness

## Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/eye protection/face protection.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a poison center/doctor if you feel unwell.  
P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
P501 Dispose of contents/container to industrial combustion plant.

## 2.3 Other Hazards

N/A

## Section 3: Composition/information on ingredients

### 3.1 Substances:

### 3.2 Mixtures:

CAS #	EC #	Hazardous components / REACH Registration No.	Concentration	GHS Classification
67-64-1	200-662-2 606-001-00-8	Acetone	50.0-75.0%	Flam. Liq. 2: H225 Eye Damage 2: H319 STOT (SE) 3: H336 EUH066

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123-86-4	607-025-00-1	N-Butyl Acetate	10.0%-25.0%	Flam. Liq. 2: H225 TOST (SE) 3: H335 H336 Acute aquatic toxicity 3; H402
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## **Section 4: First Aid Measures**

### **4.1 Description of first aid measures**

Inhalation: If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Eyes: Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Skin: Wash with plenty of soap and water.

Ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

### **4.2 Most Important symptoms and effects, both acute and delayed**

Narcotic effects.

### **4.3 Indication of any immediate medical attention and special treatment needed**

Notes to doctor:

N/A

## **Section 5: Fire Fighting Measures**

### **5.1 Extinguishing media**

Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>).

**DO NOT USE:** Water jet

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

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products: Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

## Section 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

Remove persons to safety.

#### 6.1.2 For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental Precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

### 6.3 Methods and material for containment and cleaning up

#### 6.3.1 For Containment:

Covering of drains. Use of adsorbent materials.

#### 6.3.2 Clean up and disposal of spill:

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal Binder. Place in appropriate containers for disposal. Ventilate affected area.

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

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Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feeding stuffs.

## 7.2 Conditions for safe storage, including any compatibilities

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight. Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight. Use local and general ventilation. Ground/bond container and receiving equipment. Only packaging's which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

## 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

## Section 8: Exposure control/personal protection

### 8.1 Control parameters

CAS #	Hazardous components	ACGIH TLV	Australia	Austria
67-64-1	Acetone	TLV: 500 ppm STEL: 750 ppm	TWA: 1200 mg/m3 (500 ppm) STEL: 4800 mg/m3 (2000 ppm)	TWA: 1185 mg/m3 (500 ppm) STEL: 2375 mg/m3 (1000 ppm)
123-86-4	N-Butyl Acetate	150ppm		STELs - (MAK-KZWs) 100 ppm TWAs - (MAK-TMWs) 100 ppm

CAS #	Hazardous components	Belgium OEL	California, USA PELs	Ontario, CA
67-64-1	Acetone	TWA: 1210 mg/m3 (500 ppm) STEL: 2420 mg/m3 (1000 ppm)	TWA: 1200 mg/m3 (500 ppm) STEL: 1780 mg/m3 (750 ppm) CEIL: 3000 ppm	TWA: 500 ppm STEL: 750 ppm
123-86-4	N-Butyl Acetate	STELs 200 ppm TWAs 150 ppm		STELs 200 ppm TWAs 150 ppm

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CAS #	Hazardous components	China	Québec, CA	German AGS
67-64-1	Acetone			
123-86-4	N-Butyl Acetate		STEVs 200 ppm TWAs 150 ppm	TRGS 900 - TWAs (AGWs) 62 ppm

CAS #	Hazardous components	Germany MAK/TRK	Denmark OEL	Spain OEL
67-64-1	Acetone	TWA: 1200 mg/m <sup>3</sup> (500 ppm) STEL: 4800 mg/m <sup>3</sup> (15min) (4x) (2000 ppm (15min)(4x))	TWA: 600 mg/m <sup>3</sup> (250 ppm) STEL: 1200 mg/m <sup>3</sup> (500 ppm)	TWA: 1210 mg/m <sup>3</sup> (500 ppm)
123-86-4	N-Butyl Acetate	TWAs (MAKs) 100 ppm	TWAs 150 ppm	STELs 200 ppm TWAs (VLA-EDs) 150 ppm

CAS #	Hazardous components	Europe	Finland OEL	France VL
67-64-1	Acetone	TWA: 1210 mg/m <sup>3</sup> (500 ppm)		TWA: 1210 mg/m <sup>3</sup> (500 ppm) STEL: 2420 mg/m <sup>3</sup> (1000 ppm)
123-86-4	N-Butyl Acetate		TWAs 150 ppm	OSTELs (VLCT) 200 ppm TWAs (VME) 150 ppm

CAS #	Hazardous components	Hungary OEL	Ireland OEL	Italy OEL
67-64-1	Acetone	TWA: 1210 mg/m <sup>3</sup> STEL: 2420 mg/m <sup>3</sup>	TWA: 1210 mg/m <sup>3</sup> (500 ppm)	TWA: 1210 mg/m <sup>3</sup> (500 ppm)
123-86-4	N-Butyl Acetate	STELs (CKs) 950 mg/m <sup>3</sup> TWAs (AKs) 950 mg/m <sup>3</sup>	STELs 200 ppm TWAs 150 ppm	STEL 200 ppm TWA 150 ppm

CAS #	Hazardous components	South Korea	Latvia OEL	Mexico OEL
67-64-1	Acetone	TWA: 1188 mg/m <sup>3</sup> (500 ppm) STEL: 1782 mg/m <sup>3</sup> (750 ppm)	TWA: 1210 mg/m <sup>3</sup> (500 ppm)	TWA: 2400 mg/m <sup>3</sup> (1000 ppm) STEL: 3000 mg/m <sup>3</sup> (1260 ppm)



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123-86-4	N-Butyl Acetate	STELs 200 ppm TWAs 150 ppm	TWAs 200 mg/m3	STELs (LMPE-CTs) 200 ppm TWAs (LMPE-PPTs) 150 ppm
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CAS #	Hazardous components	Malaysia OEL	NIOSH	Netherlands OEL
67-64-1	Acetone	TWA: 1187 mg/m3 (500 ppm)	TWA: 250 ppm	TWA: 1210 mg/m3 STEL: 2420 mg/m3
123-86-4	N-Butyl Acetate		STELs 200 ppm TWAs 150 ppm	

CAS #	Hazardous components	New Zealand	OSHA PELs	Poland
67-64-1	Acetone	TWA: 1185 mg/m3 (500 ppm) STEL: 2375 mg/m3 (1000 ppm)	PEL: 1000 ppm	TWA: 600 mg/m3 STEL: 1800 mg/m3
123-86-4	N-Butyl Acetate	STELs 200 ppm TWAs 150 ppm	150ppm	TWAs (NDSs) 200 mg/m3

CAS #	Hazardous components	Sweden OEL	Singapore	Britain EH40
67-64-1	Acetone	TWA: 600 mg/m3 (250 ppm) STEL: 1200 mg/m3 (500 ppm) (15 min)	TWA: 1780 mg/m3 (750 ppm) STEL: 2380 mg/m3 (1000 ppm)	TWA: 1210 mg/m3 (500 ppm) STEL: 3620 mg/m3 (1500 ppm)
123-86-4	N-Butyl Acetate	STELs (STVs) 150 ppm TLVs (LLVs) 100 ppm	STELs 200 ppm	

CAS #	Hazardous components	Switzerland OEL	Japan OEL	
67-64-1	Acetone	TWA: 1200 mg/m3 (500 ppm) STEL: 2400 mg/m3 (1000 ppm)	TWA: 750 ppm	
123-86-4	N-Butyl Acetate			

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## 8.2 Exposure controls:

### 8.2.1 Appropriate engineering controls:

General ventilation.

### 8.2.2 Individual protection measures, such as personal protective equipment

**Eye/Face protection:**

Wear eye/face protection.

**Skin protection:**

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

**Respiratory protection:**

In case of inadequate ventilation wear respiratory protection.

**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

<b>Appearance:</b>	White Liquid		
<b>Odor:</b>	Pungent	<b>Odor threshold:</b>	-
<b>pH:</b>	-	<b>Melting point:</b>	-
<b>Boiling range:</b>	56.05°C	<b>Flash point:</b>	-17°C
<b>Evaporation rate:</b>	-	<b>Upper Explosive Limit:</b>	-
		<b>Lower Explosive Limit:</b>	-
<b>Flammability:</b>	Highly flammable liquid and vapor	<b>Vapor Pressure:</b>	240 hPa at 20 °C
<b>Vapor density:</b>	-	<b>Relative Density:</b>	.792
<b>Solubility(ies):</b>	Not miscible in water	<b>Partition coefficient n-octanol/water:</b>	-
<b>Auto-ignition temperature:</b>	415°C - 465°C	<b>Decomposition temperature:</b>	-
<b>Viscosity:</b>	-		
<b>Explosive properties:</b>	-		
<b>Oxidizing properties:</b>	-		



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## 9.2 Other information:

Miscibility:	-	VOC:	-
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## Section 10: Stability and reactivity

### 10.1 Reactivity

Risk of ignition if heated.

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5 Incompatible materials:

Oxidizers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see Section 5.

## Section 11: Toxicological information

### 11.1 Information on Toxicological effects

<b>Acute toxicity:</b>	Shall not be classified as acutely toxic.
<b>Skin corrosion/irritation:</b>	Shall not be classified as corrosive/irritant to skin.
<b>Serious eye damage/irritation:</b>	Causes serious eye irritation.
<b>Respiratory or skin sensitization:</b>	Shall not be classified as a respiratory or skin sensitizer.
<b>Germ cell mutagenicity:</b>	Shall not be classified as germ cell mutagenic.
<b>Carcinogenicity:</b>	Shall not be classified as carcinogenic.
<b>Reproductive toxicity:</b>	Shall not be classified as a reproductive toxicant.
<b>STOT-single exposure:</b>	May cause drowsiness or dizziness.
<b>STOT-repeated exposure:</b>	Shall not be classified as a specific target organ toxicant (repeated exposure).
<b>Aspiration hazard</b>	Shall not be classified as presenting an aspiration hazard.

#### 11.1.1 Hazard Class information:



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11.1.2 Mixture toxicity:

11.1.3 Critical studies:

11.1.4 Non-compliance hazard class:

11.1.5 Information on likely routes of exposure:

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

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

11.1.8 Interactive effects:

11.1.9 Absence of specific data:

11.1.10 Mixtures:

11.1.11 Mixture vs Substance information:

11.1.12 Other information:

## **Section 12: Ecological information**

12.1 **Toxicity:** Shall not be classified as hazardous to the aquatic environment.

12.2 **Persistence and degradability:** Not determined

12.3 **Bioaccumulative potential:** Not determined

12.4 **Mobility in soil:** Not determined

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12.5 Results of PBT and vPvB assessment: Not determined

12.6 Other adverse effects: Not determined

## Section 13: Disposal considerations

### 13.1 Waste treatment methods:

Disposal of at a facility that complies with local, state and federal regulations. DO NOT DISPOSE IN SEWER, WATERWAYS, OR ON GROUND. Do not attempt to recycle by distillation or incinerate empty container due to possible explosion hazards. Empty containers contain product residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose to heat, flame, sparks, static electricity, or sources of ignition. They may explode and cause injury or death.

## 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)
67-64-1	Acetone	No	Yes 5000LB	No
123-86-4	N-Butyl Acetate	No	No	No

CAS #	Hazardous components	Canadian NPRI	Canadian Toxic	Canadian DSL
67-64-1	Acetone	No	No	Yes
123-86-4	N-Butyl Acetate	Yes 1 tonne		Yes

CAS #	Hazardous components	CAA HAP, ODC	CWA NPDES	TSCA
67-64-1	Acetone	No	No	Yes - Inv
123-86-4	N-Butyl Acetate			Yes

CAS #	Hazardous components	CA Prop 65	Mexico INSQ	Australia ICS
67-64-1	Acetone	No	Listed	Listed
123-86-4	N-Butyl Acetate	No	Listed	Listed

CAS #	Hazardous components	New Zealand IOC	China IECSC	Japan ENCS
67-64-1	Acetone	Listed	Listed	Yes - 2-542
123-86-4	N-Butyl Acetate	Listed	Listed	Yes

CAS #	Hazardous components	Japan ISHL	Korea ECL	Philippines
67-64-1	Acetone	No	Yes KE-29367	Listed
123-86-4	N-Butyl Acetate	Yes	Yes	Listed

CAS #	Hazardous components	Taiwan TCSCA	Singapore HSL	Israel HSL:
67-64-1	Acetone	Listed	No	No
123-86-4	N-Butyl Acetate	Listed		

CAS #	Hazardous components	Germany WHCS	Switzerland Giftliste 1	Switzerland INNS
67-64-1	Acetone	Yes – 150	Yes G-2429	No



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CAS #	Hazardous components	REACH	Kyoto GHG	Rotterdam
67-64-1	Acetone	Yes - (R), (P)	No	No
123-86-4	N-Butyl Acetate	No		

CAS #	Hazardous components	Stockholm		
67-64-1	Acetone	No		
123-86-4	N-Butyl Acetate			

## Canadian WHMIS Classification:

## 15.2 Chemical safety assessment

### Section 16: Other information

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**Revision Notes:**

**Additional Information:**

#### **Company Disclaimer:**

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