

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, MEK Purple/Violet Soft Pigment

Product Code: 51-0058-01

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:

Flammable Liquids, Category 2

Eye corrosive, Category 2A

Specific Target Organ Toxicity (single exposure), 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

P233 Keep container tightly closed

P240 Ground/bond container and receiving equipment

P241 Use explosion-proof electrical/ventilating/light/.../equipment

P242 Use only non-sparking tools

P243 Take precautionary measures against static discharge

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P264 Wash thoroughly after handling

P271 Use only outdoors or in a well-ventilated area

P280 Wear protective gloves/protective clothing/eye protection/face protection

P312 Call a POISON CENTER or doctor/physician if you feel unwell

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P337+P313 Get medical advice/attention

P370+P378 In case of fire: Use ... for extinction

P405 Store locked up

P403+P233 Store in a well ventilated place. Keep container tightly closed

P403+P235 Store in a well ventilated place. Keep cool

P501 Dispose of contents/container in accordance with applicable local, state, or federal regulations

2.3 Other Hazards

No data available.

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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	80 - 90%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;

Section 4: First Aid Measures

4.1 Description of first aid measures

Inhalation Move exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep affected person warm and at rest. Seek medical attention.

Eyes: Promptly wash eyes with plenty of water while lifting the eyelids. Remove contact lenses, if worn. Continue to rinse for at least 15 minutes. Seek medical attention, preferably with an ophthalmologist.

Skin: Remove contaminated clothing. Wash affected area with plenty of soap and water. Seek medical attention if irritation develops or persists.

Ingestion: NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! If affected person is conscious and alert, give 2 to 3 glasses of water to dilute the swallowed material. Do not induce vomiting. If vomiting occurs, the head should be kept low so the stomach vomit does not enter the lungs. Seek medical attention.

4.2 Most Important symptoms and effects, both acute and delayed

Inhalation Causes respiratory tract irritation. Inhalation of vapors may cause drowsiness and dizziness. May cause central nervous system effects such as nausea and headache. Neurobehavioural effects of exposure to MEK (200 ppm for 4 hrs) were studied with 137 volunteers. There were no statistically significant effects observed in biochemical, psychomotor, sensorimotor and psychological tests. May be harmful if inhaled.

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Chronic inhalation may cause effects similar to those of acute inhalation.

Chronic overexposure to vapors may cause lung damage.

Eye contact Causes eye irritation. Vapors may cause eye irritation. Animal evidence suggests that MEK is a moderate to severe eye irritant.

Skin contact May be absorbed through the skin in harmful amounts. Repeated or prolonged exposure may cause drying and cracking of the skin. Only one human case of skin sensitization was located. Negative results were obtained in an animal test; MEK did not produce skin sensitization in the mouse ear thickness test. May be harmful if absorbed through the skin. Causes skin irritation.

Prolonged or repeated skin contact may cause defatting and dermatitis. Animal studies have reported that fetal effects/abnormalities may occur when maternal toxicity is seen.

Ingestion May cause irritation of the digestive tract. Possible aspiration hazard. May cause central nervous system depression. Animal evidence suggests that MEK can be aspirated (inhaled) into the lungs during ingestion or vomiting. May be harmful if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to doctor:

Butanone is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting. Preexisting disorders of the following organs may be aggravated by exposure to this material: skin, lungs (for example, asthma-like conditions).

Section 5: Fire Fighting Measures

5.1 Extinguishing media

In case of fire, use carbon dioxide, dry chemical powder or appropriate foam. Water may be ineffective because it will not cool material below its flash point. For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2 Special hazards arising from the substance or mixture

Extremely flammable liquid and vapor. Vapor may cause flash fire. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.

5.3 Advice for firefighters

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

Further information.

Use water spray to cool unopened containers.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Chemical splash goggles, protective clothing, gloves. Use approved respirator if air contamination is above accepted risk level. Use proper personal protective equipment as indicated in Section 8.

6.1.2 For emergency responders

Chemical splash goggles, protective clothing, gloves. Use approved respirator if air contamination is above accepted risk level.. Use proper personal protective equipment as indicated in Section 8.



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6.2 Environmental Precautions

Do not allow material to enter into public sewer system, waterway, or ground. If large amounts of material are released, report to appropriate local and/or state agencies.

6.3 Methods and material for containment and cleaning up

6.3.1 For Containment:

Ventilation. Stop leak if it can be done without risk. If needed, dike spill using absorbent or impervious material such as vermiculite, dry sand, clay, or earth.

6.3.2 Clean up and disposal of spill:

Collect spills with absorbent, non-combustible material into suitable containers.

Section 7: Handling and storage

7.1 Precautions for safe handling

Keep away from heat, sparks, and open flame. Avoid spilling, skin and eye contact. Use in well ventilated area, avoid breathing vapors. Protect material from direct sunlight. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Do not pressurize, cut, heat or weld containers. Empty containers may contain product residue. Do not reuse empty containers.

7.2 Conditions for safe storage, including any compatibilities

Keep container closed to prevent contamination. Store at an ambient temperature. Store in a cool, well ventilated place away from incompatible materials. Do not handle or store near an open flame, heat or other sources of ignition.

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



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8.1 Control parameters

CAS #	Hazardous components	ACGIH TLV	Australia	Austria
78-93-3	Methyl Ethyl Ketone	200 ppm/8 hour		TWAs - 100 ppm

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

CAS #	Hazardous components	China	Québec, CA	German AGS
78-93-3	Methyl Ethyl Ketone		STELs 100 ppm PELs 50 ppm	

CAS #	Hazardous components	Germany MAK/TRK	Denmark OEL	Spain OEL
78-93-3	Methyl Ethyl Ketone	200 ppm TWA	50 ppm TWA	

CAS #	Hazardous components	Europe	Finland OEL	France VL
78-93-3	Methyl Ethyl Ketone		STELs 100 ppm	300 ppm STEL 200 ppm TWA

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

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

CAS #	Hazardous components	Malaysia OEL	NIOSH	Netherlands OEL
78-93-3	Methyl Ethyl Ketone		STELs 300 ppm TWAs 200 ppm	



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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

CAS #	Hazardous components	Sweden OEL	Singapore	Britain EH40
78-93-3	Methyl Ethyl Ketone		PELs 200 ppm STELs 300 ppm	

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

Local exhaust to minimize exposure to vapor and particulate matter.

8.2.2 Individual protection measures, such as personal protective equipment

Wear appropriate protective clothing to prevent skin exposure. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Eye/Face protection: Wear safety glasses with side shields or splash proof eye goggles to prevent the possibility of eye contact.

Skin protection: Wear protective gloves (e.g., polyvinyl alcohol, nitrile, PTFE) and lab coat to minimize possibility of skin contact.

Respiratory protection: None expected to be needed under normal conditions. However, use NIOSH approved half mask air purifying respirator, if needed

Other Protective Equipment: Eye bath, safety shower.

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:	Purple / Violet Liquid		
Odor:	Characteristic Ketone	Odor threshold:	No data available
pH:	No data available	Melting point:	No data available



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Boiling range:	79.00 C	Flash point:	-8°C
Evaporation rate:	No data available	Upper Explosive Limit:	1.8 %
		Lower Explosive Limit:	11.5 %
Flammability:	No data available	Vapor Pressure:	69.7 MM_HG at 20.0 C
Vapor density:	1.0	Relative Density:	0.702 (H2O = 1 @ 20 °C)
Solubility(ies):	Not miscible in water	Partition coefficient n-octanol/water:	No data available
Auto-ignition temperature:	450.00 C	Decomposition temperature:	No data available
Viscosity:	No data available		
Explosive properties:	No data available		
Oxidizing properties:	No data available		

9.2 Other information:

Miscibility:	Not miscible in water	VOC:	6.16 LB/GAL
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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

Will not occur

10.4 Conditions to avoid:

ignition sources, Excess heat, Heat, flames and sparks.

10.5 Incompatible materials:

This product is incompatible with strong oxidizing agents, strong bases, strong alkalis, copper, copper alloys, and reducing agents.

10.6 Hazardous decomposition products

Products: Fire may create toxic gases/vapors/fumes of carbon monoxide (CO), carbon dioxide (CO2) and/or nitrous oxides.

Section 11: Toxicological information

11.1 Information on Toxicological effects

Acute toxicity:	No data available
Skin corrosion/irritation:	Skin Contact: Irritating to skin.
Serious eye damage/irritation:	Eye contact: Irritating to eyes.
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity:	Butanone has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.
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:

Oral Toxicity: 2,654mg/kg

11.1.3 Critical studies:

No data available

11.1.4 Non-compliance hazard class:

No data available

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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:

This material should not be used for any other purpose than the intended use without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

Warning! Flammable liquid and vapor. May affect the central nervous system causing dizziness, headache, or nausea. May cause eye, skin and respiratory tract irritation. Prolonged or repeated contact may dry skin, cause irritation and burns. May be harmful if inhaled or swallowed.

Symptoms include stinging, tearing redness and swelling of eyes. Can cause skin irritation. Prolonged or repeated contact may dry the skin, causing redness, burning, drying or cracking of skin. Passage of this material into the body through the skin is possible but is unlikely that this would result in harmful effects during safe handling and use. Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury. Do not induce vomiting.

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:

Component Toxicity

78-93-3 Methyl Ethyl Ketone: Oral: 2,300 mg/kg (rat)
Dermal: 5 g/kg (rabbit)



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Section 12: Ecological information

12.1 Toxicity:

No data available

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:

No data available

12.6 Other adverse effects:

No data available

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
	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]

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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

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	No	Yes 5000 LB	No

CAS #	Hazardous components	Canadian NPRI	Canadian Toxic	Canadian DSL
78-93-3	Methyl Ethyl Ketone	1 tonne	No	Listed

CAS #	Hazardous components	CAA HAP, ODC	CWA NPDES	TSCA
78-93-3	Methyl Ethyl Ketone	No	No	Yes - Inventory

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

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CAS #	Hazardous components	New Zealand IOC	China IECSC	Japan ENCS
78-93-3	Methyl Ethyl Ketone	Listed	Listed	Yes - 2-542

CAS #	Hazardous components	Japan ISHL	Korea ECL	Philippines
78-93-3	Methyl Ethyl Ketone	Listed	Listed	Listed

CAS #	Hazardous components	Taiwan TCSCA	Singapore HSL	Israel HSL:
78-93-3	Methyl Ethyl Ketone	Listed		

CAS #	Hazardous components	Germany WHCS	Switzerland Giftliste 1	Switzerland INNS
78-93-3	Methyl Ethyl Ketone			

CAS #	Hazardous components	REACH	Kyoto GHG	Rotterdam
78-93-3	Methyl Ethyl Ketone	Yes - (R), (P)		

CAS #	Hazardous components	Stockholm		
78-93-3	Methyl Ethyl Ketone			

Canadian WHMIS Classification:

No data available

15.2 Chemical safety assessment

Section 16: Other information

Revision Date: 7/16/2018

Revision Notes:

Additional Information:



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Company Disclaimer:

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