

Safety Data Sheet

Date: 11/14/2019

Product Number: 51-0061-01

Revision: A

Product Name: Ink, MEK Plastic Black

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 Plastic Black

Product Code: 51-0061-01

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:

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

2.2 Label elements



Signal word: Danger

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Hazard statements:

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing vapour/ spray.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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 CENTRE/doctor if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog 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 in accordance with national regulations.

2.3 Other Hazards

This product does not contain any substances classified as PBT or vPvB.

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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	60 - 100%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;
117527-94-3	403-720-7	tert-ALKYL(C12-C14)AMMONIUMBis[1-[2- & [5-(1,1 & ...,	1 - 5%	Aquatic Chronic 2: H411;
107-98-2	203-539-1	Propylene Glycol Monomethyl Ether	<1 %	Flam. Liq. 3 - H226 STOT SE 3 - H336

Section 4: First Aid Measures

4.1 Description of first aid measures

General Information	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort continues.
Inhalation	Place unconscious person on their side in the recovery position and ensure breathing can take place. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.
Eyes:	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.
Skin:	Immediately remove contaminated clothing. Rinse immediately with plenty of water. Remove contaminated clothing.
Ingestion:	Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Keep affected person under observation. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

4.2 Most Important symptoms and effects, both acute and delayed

General Information	If adverse symptoms develop as described the casualty should be transferred to hospital as soon as possible.
Inhalation	Unlikely route of exposure.

Eye contact	Causes serious eye irritation.
Skin contact	May cause irritation.
Ingestion	May be harmful if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to doctor: No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

Section 5: Fire Fighting Measures

5.1 Extinguishing media

Extinguish with the following media: Alcohol-resistant foam. Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc. Do not use water, if avoidable.

5.2 Special hazards arising from the substance or mixture

The product is flammable. Heating may generate flammable vapours. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

5.3 Advice for firefighters

Control run-off water by containing and keeping it out of sewers and watercourses.

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.1.1 For non-emergency personnel

Evacuate

6.1.2 For emergency responders

Avoid contact with skin and eyes.

6.2 Environmental Precautions



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Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

6.3.1 For Containment:

Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.

6.3.2 Clean up and disposal of spill:

Keep combustible materials away from spillage. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

Section 7: Handling and storage

7.1 Precautions for safe handling

Avoid spilling. Avoid contact with skin and eyes. Do not wear contact lenses. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Use explosion proof electric equipment. Eye wash facilities and emergency shower must be available when handling this product. During application and drying, solvent vapors will be emitted.

7.2 Conditions for safe storage, including any compatibilities

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container. Utilize flammable liquid storage.

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
78-93-3	Methyl Ethyl Ketone	200 ppm/8 hour		TWAs - 100 ppm
107-98-2	Propylene Glycol Monomethyl Ether	25 ppm/skin/10hr		STEL/KZW: 2000 ppm STEL/KZW: 3800 mg/m ³ TWA/TMW: 1000 ppm



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				TWA/TMW: 1900 mg/m3
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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
107-98-2	Propylene Glycol Monomethyl Ether			

CAS #	Hazardous components	China	Québec, CA	German AGS
78-93-3	Methyl Ethyl Ketone		STELs 100 ppm PELs 50 ppm	
107-98-2	Propylene Glycol Monomethyl Ether	TWA: 300 mg/m3 STEL: 450 mg/m3 (15 min)	TWA: 1190 mg/m3 (500 ppm) STEL: 2380 mg/m3 (1000 ppm)	

CAS #	Hazardous components	Germany MAK/TRK	Denmark OEL	Spain OEL
78-93-3	Methyl Ethyl Ketone	200 ppm TWA	50 ppm TWA	
107-98-2	Propylene Glycol Monomethyl Ether	TWA/MAK: 100 ppm TWA/MAK: 370 mg/m3 Peak: 200 ppm Peak: 740 mg/m3 TWA/AGW: 100 ppm TWA/AGW: 370 mg/m3	TWA: 50 ppm TWA: 185 mg/m3	STEL/VLA-EC: 150 ppm STEL/VLA-EC: 568 mg/m3 TWA/VLA-ED: 100 ppm TWA/VLA-ED: 375 mg/m3 Skin

CAS #	Hazardous components	Europe	Finland OEL	France VL
78-93-3	Methyl Ethyl Ketone		STELs 100 ppm	300 ppm STEL 200 ppm TWA
107-98-2	Propylene Glycol Monomethyl Ether			TWA/VME: 50 ppm (restrictive limit) TWA/VME: 188 mg/m3 (restrictive limit) STEL/VLCT: 100 ppm (restrictive limit)



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				STEL/VLCT: 375mg/m3 (restrictive limit) Skin
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CAS #	Hazardous components	Hungary OEL	Ireland OEL	Italy OEL
78-93-3	Methyl Ethyl Ketone	900 mg/m3 STEL 600 mg/m3 TWA	300 ppm STEL 200 ppm TWA	300 ppm STEL 200 ppm TWA
107-98-2	Propylene Glycol Monomethyl Ether		TWA: 100 ppm TWA: 375 mg/m3 STEL: 150 ppm STEL: 568 mg/m3	TWA: 100 ppm TWA: 375 mg/m3 STEL: 150 ppm STEL: 568 mg/m3 Skin

CAS #	Hazardous components	South Korea	Latvia OEL	Mexico OEL
78-93-3	Methyl Ethyl Ketone	STELs 300 ppm TWA 200 ppm	300 ppm STEL 67 ppm TWA	300 ppm STEL 200 ppm TWA
107-98-2	Propylene Glycol Monomethyl Ether			

CAS #	Hazardous components	Malaysia OEL	NIOSH	Netherlands OEL
78-93-3	Methyl Ethyl Ketone		STELs 300 ppm TWA 200 ppm	
107-98-2	Propylene Glycol Monomethyl Ether			STEL: 563 mg/m3 TWA: 375 mg/m3 Skin

CAS #	Hazardous components	New Zealand	OSHA PELs	Poland
78-93-3	Methyl Ethyl Ketone	STELs 300 ppm TWA 150 ppm	200 ppm/8 hour	STELs 900 mg/m3 TWA 450 mg/m3
107-98-2	Propylene Glycol Monomethyl Ether		50 ppm/skin/8hr	NDSch: 360 mg/m3 TWA/NDS: 180 mg/m3

CAS #	Hazardous components	Sweden OEL	Singapore	Britain EH40
78-93-3	Methyl Ethyl Ketone		PELs 200 ppm STELs 300 ppm	
107-98-2	Propylene Glycol Monomethyl Ether			

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CAS #	Hazardous components	Switzerland OEL	Japan OEL	
78-93-3	Methyl Ethyl Ketone			
107-98-2	Propylene Glycol Monomethyl Ether	STEL/KZW: 200 ppm STEL/KZW: 720 mg/m ³ TWA/MAK: 100 ppm TWA/MAK: 360 mg/m ³		

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

8.2.2 Individual protection measures, such as personal protective equipment

Eye/Face protection:

Contact lenses should not be worn when working with this chemical. The following protection should be worn: Chemical splash goggles.

Skin protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station and safety shower.

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

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9.1 Information on basic physical and chemical properties

Appearance:	Black liquid		
Odor:	Solvent	Odor threshold:	No data available
pH:	No data available	Melting point:	No data available
Boiling range:	79.6 °C	Flash point:	-9°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:	No data available
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:	No data available
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Section 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

No particular stability concerns.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid:

Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials:

No data available.

10.6 Hazardous decomposition products

Oxides of carbon. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³.

Section 11: Toxicological information

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11.1 Information on Toxicological effects

Acute toxicity:	No data available
Skin corrosion/irritation:	Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.
Respiratory or skin sensitization:	Gas or vapor in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing. Vapors have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.
Ingestion	Gastrointestinal symptoms, including upset stomach.
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:

No data available

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



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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:

Harmful to aquatic life with long lasting effects.

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:

Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Containers should be thoroughly emptied before disposal because of the risk of an explosion.

Section 14: Transport information

14.1	UN number:	1210
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Product Name: Ink, MEK Plastic Black

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]
	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	None	None	None
107-98-2	Propylene Glycol Monomethyl Ether			

CAS #	Hazardous components	Canadian NPRI	Canadian Toxic	Canadian DSL
78-93-3	Methyl Ethyl Ketone	1 tonne		Listed
107-98-2	Propylene Glycol Monomethyl Ether			

CAS #	Hazardous components	CAA HAP, ODC	CWA NPDES	TSCA
78-93-3	Methyl Ethyl Ketone	None		None

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107-98-2	Propylene Glycol Monomethyl Ether			
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CAS #	Hazardous components	CA Prop 65	Mexico INSQ	Australia ICS
78-93-3	Methyl Ethyl Ketone		Listed	Listed
107-98-2	Propylene Glycol Monomethyl Ether			

CAS #	Hazardous components	New Zealand IOC	China IECSC	Japan ENCS
78-93-3	Methyl Ethyl Ketone	Listed	Listed	Listed
107-98-2	Propylene Glycol Monomethyl Ether			

CAS #	Hazardous components	Japan ISHL	Korea ECL	Philippines
78-93-3	Methyl Ethyl Ketone	Listed	Listed	Listed
107-98-2	Propylene Glycol Monomethyl Ether			

CAS #	Hazardous components	Taiwan TCSCA	Singapore HSL	Israel HSL:
78-93-3	Methyl Ethyl Ketone	Listed		
107-98-2	Propylene Glycol Monomethyl Ether			

CAS #	Hazardous components	Germany WHCS	Switzerland Giftliste 1	Switzerland INNS
78-93-3	Methyl Ethyl Ketone			
107-98-2	Propylene Glycol Monomethyl Ether			

CAS #	Hazardous components	REACH	Kyoto GHG	Rotterdam
78-93-3	Methyl Ethyl Ketone	None		
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CAS #	Hazardous components	Stockholm		



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78-93-3	Methyl Ethyl Ketone			
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Canadian WHMIS Classification:

15.2 Chemical safety assessment

Section 16: Other information

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Revision Notes: NA

Additional Information:

Company Disclaimer:

The information and recommendations contained herein are, to the best of BestCode's knowledge and belief, accurate and reliable as of the date issued. Because many factors may affect processing or application/use, BestCode recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not-permitted. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, date and information furnished by BestCode hereunder are given gratis and BestCode assumes no obligation or liability for the description, designs, data and information given or results obtained. All such being given and accepted at your risk.