

According to Regulation (EC) No. 1907/2006 as amended by (ED) No. 1272/2008

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code: 51-0020-01

Product Name: Ink, MEK Black Pigment

1.2 Relevant Identified uses of the substance or mixture and uses advised against:

1.3 Details of the Supplier of the Safety Data Sheet

Company Name BestCode

Address 3034 SE Loop 820
Fort Worth, Texas, 76149

Website www.bestcode.co

Phone 817-349-8555

Email info@bestcode.co

Fax 817-349-8480

1.4 Emergency Telephone Number

Emergency Contact Chemtel

Toll Free: 1-800-255-3924

International: 01-813-248-0585

Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:

Flammable Liquids, Category 3

Serious Eye Damage/Eye Irritation, Category 2A

Specific Target Organ Toxicity (single exposure), Category 3

2.2 Label Elements:

2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:



GHS Signal Word: **Danger**

GHS Hazard Phrases:

H225 - Highly flammable liquid and vapor.

H226 - Flammable liquid and vapor.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

H336 - May cause drowsiness or dizziness.

GHS Precaution Phrases:

P233 - Keep container tightly closed.

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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

P240 - Ground/bond container and receiving equipment.

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

P243 - Take precautionary measures against static discharge.

P242 - Use only non-sparking tools.

P264 - Wash hands thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

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

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GHS Response Phrases:

P370+378 - In case of fire, use ... to extinguish.

P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313 - If eye irritation persists, get medical advice/attention.

P309+311 - Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

GHS Storage and Disposal Phrases:

P403+235 - Store in cool/well-ventilated place.

P501 - Dispose of contents/container to

P405 - Store locked up.

P403+233 - Store container tightly closed in well-ventilated place - if product is as volatile as to generate hazardous atmosphere.

2.3 Adverse Human Health Effects and Symptoms:

Chronic: Chronic inhalation may cause effects similar to those of acute inhalation. 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. Chronic overexposure to vapors may cause lung damage.

2.3.1 Inhalation:

Low vapor concentrations cause irritation of the respiratory tract causing coughing and slight difficulty with breathing. High concentrations produce more severe irritation, and may be accompanied by nausea, fatigue, weakness, euphoria, drowsiness, double vision, ataxia, and coma.

2.3.2 Skin Contact:

Prolonged exposure may result in the absorption of a harmful amount of the material.

2.3.3 Eye Contact:

May be an eye irritant and cause severe eye injury

2.3.4 Ingestion:

Moderately toxic. Ingestion of moderate quantities may cause abdominal discomfort, nausea, and drowsiness.

Section 3. Composition/Information on Ingredients

CAS #	Hazard components (Chemical Name)/ Reach Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
78-93-3	Methyl ethyl ketone	79.0-89.0 %	201-159-0 606-002-00-3	Flam. Liq. 2: H225 Eye Damage 2A: H319 TOST (SE) 3: H335 H336
1333-86-4	Carbon Black	<5.0 %	215-609-96	

Section 4. First Aid Measures

4.1 Description of First Aid Measures:

In Case of 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.

In Case of Skin Contact:

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

In Case of Eye Contact:

Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist

In Case of Ingestion:

EVER 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 that the stomach vomit does not enter the lungs. Seek immediate medical attention.

4.2 Important Symptoms and Effects, Both Acute and Delayed:

Note for the Doctor:

Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:** Use: Alcohol resistant foam, Carbon Dioxide, Dry Chemical, water spray.
- 5.2 Flammable Properties and Hazards:**
- | | | | |
|----------------------------|-----------|---------------------|------------|
| Flash Point: | -7 C | Method Used: | Estimate |
| Explosive Limits: | LEL: 1.9% | | UEL: 10.0% |
| Autoignition Point: | 404 C | | |
- 5.3 Fire Fighting Instructions:**
- Keep run-off water out of sewers and water sources. Dike for water control. If risk of water pollution occurs, notify appropriate authorities. Use water to keep fire exposed containers cool and disperse vapors. Move container from fire area if it can be done without risk.
- Vapors from this product may travel or be moved by air currents and could be ignited by any source of ignition, including static electricity.
- Combustion may lead to production of carbon monoxide and/or carbon dioxide.

Section 6. Accidental Release Measures

- 6.1 Protective Precautions, Protective Equipment and Emergency Procedures:** Chemical splash goggles, protective clothing, gloves.
- 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:**
- Ventilate. 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.
- Collect spills with absorbent, non-combustible material into suitable containers.

Section 7. Handling and Storage

- 7.1 Precautions to be taken when Handling:** Flammable liquid. Keep away from heat, sparks and open flame. Avoid spilling. Avoid skin and eye contact. Avoid prolonged or repeated contact with liquid and inhalation of vapor or mist. Use in well ventilated area. Can release vapors that form flammable mixtures at temperatures at or above the flashpoint.
- 7.2 Precautions to be Taken in Storing:** Keep away from heat, sparks, and open flames. Store in a cool, dry place with adequate ventilation in tightly sealed containers. Empty containers contain flammable residue. Do not expose to heat or other sources of ignition.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters

CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
78-93-3	Methyl Ethyl Ketone	TWA: 600 mg/m3 (200ppm) STEL: 899 mg/m3 (300ppm)	TWA: 600 mg/m3 (200ppm) STEL: 900 mg/m3 (300ppm)	TWA: 600mg/m3 STEL: 900 mg/m3 (300ppm)
1333-86-4	Carbon Black			

CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
78-93-3	Methyl Ethyl Ketone	PEL: 200 ppm	200PPM STEL:350ppm	
1333-86-4	Carbon Black	3mg/m3	3mg/m3	

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8.2 Exposure Controls

- 8.2.1 Engineering Controls:** (Ventilation etc.): Local exhaust to minimize exposure to vapor and particulate matter.
- 8.2.2 Personal Protection Equipment:**
- Eye Protection:** Eye bath, safety shower
Wear monogoggles or face shield. Do not wear contact lenses.
- Protective Gloves:** Wear impermeable gloves such as "Viton" nitrile and a protective apron to minimize possibility of skin contact.
- Other Protective Clothing:**
- Respiratory Equipment (Specify Type):** The use of respiratory protection depends on vapor concentration above the time weighted TLV. Use a NIOSH-approved cartridge respirator or gas mask. Do not wear contact lenses.
- 8.2.3 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

Physical States:	<input type="checkbox"/> Gas	<input checked="" type="checkbox"/> Liquid	<input type="checkbox"/> Solid
Appearance and Odor:	Black, Solvent Odor		
Melting Point:			
Boiling Point:	175°F		
Flash Pt:	24°F	Method Used:	Estimate
Evaporation Rate:			
Explosive Limits:	LEL: 1.9%	UEL: 10.0%	
Vapor Pressure (vs. Air or mm Hg):			
Vapor Density (vs. Air = 1):	> Air		
Specific Gravity (Water = 1):			
Density:	7.0 lb/gal		
Solubility in Water:			
Autoignition Pt:	404 C		

9.2 Other Information

Percent Volatile:

Section 10. Stability and Reactivity

10.1 Reactivity

10.2 Stability Unstable ☐ Stable ☒

10.3 Conditions To Avoid -

Hazardous Reactions:

Possibility of Hazardous Reactions: Will occur ☐ Will not occur ☒

10.4 Conditions to Avoid - All ignition sources.
Instability

10.5 Incompatibility – This product is incompatible with strong oxidizing agents, strong acids or bases, alkalis and chlorinated compounds.
Materials to Avoid

10.6 Hazardouts Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide.
Decomposition or
Byproducts:

Section 11. Toxicological Information

11.1 Acute Data

EYE IRRITATION:	EYE CONTACT: Irritant to eyes and mucous membranes.
SKIN IRRITATION:	SKIN CONTACT: Irritant to skin
ORAL LD50:	Unknown
DERMAL LD50:	Unknown
INHALATION LD50:	Unknown

11.2 Chronic Data

TOXICITY STUDIES:	Not Determined
MUTAGENICITY DATA:	Not Determined
REPRODUCTIVE/TERATOLOGY DATA:	Not Determined
CARCINOGENICITY DATA:	IARC lists Carbon Black as possibly carcinogenic to humans (Group 2B). The National Toxicology Program (NTP) and the Occupational Safety and Health Administration do not list Carbon Black as a carcinogen

Carcinogenicity:

Section 12. Ecological Information

12.1 Toxicity:	Not Determined
12.2 Persistence and Degradability:	Not Determined
12.3 Bioaccumulative Potential:	Not Determined
12.4 Mobility in Soil:	
12.5 Results of PBT and vPvB assessment:	

Section 13. Disposal Considerations

13.1 Waste Disposal Method:	Dispose of material in accordance with applicable local, state, or federal regulations. Waste codes: D001; D035; F003; F005
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Section 14. Transport Information

GHS Classification	Flammable Liquids, Category 3 - Danger! Highly flammable liquid and vapor Serious Eye Damage/Eye Irritation, Category 2A - Warning! Causes serious eye irritation Specific Target Organ Toxicity (single exposure), Category 3 - Warning! May cause respiratory irritation, or may cause drowsiness and dizziness
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14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name:	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
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DOT Hazard Class:	3	FLAMMABLE LIQUID
UN/NA Number:	UN 1210	Packing Group: II

14.2 LAND TRANSPORT (Canadian TDG):

LAND TRANSPORT (Canadian TDG):	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]		
UN Number	1210	Packing Group:	II
Hazard Class	3 – FLAMMABLE LIQUID	TDG Classification:	

14.3 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name:			
UN Number	1210	Packing Group:	II
Hazard Class	3 – FLAMMABLE LIQUID		

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14.4 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]

Section 15. Regulatory Information

Canadian WHMIS Classification:

This product has been classified according to the hazard criteria of the CPR and the MSDS contains All of the information required by the CPR.

SARA TITLE 3:

Section 311/312 Categorizations (40 CFR 372): This product is a hazardous chemical under 29 CFR 1910.1200, and is categorized as an IMMEDIATE HEALTH, DELAYED HEALTH and FIRE hazard. This product contains the following hazardous chemicals subject to reporting the reporting requirements of Section 313, Title 3 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL	CAS NUMBER	% (WEIGHT)
Methyl Ethyl Keone	78-93-3	79-89
Chloroethane	75-01-4	Trace
Trichloroethylene	79-01-6	<0.007
Carbon Black	1333-86-4	<5
Vinyl Acetate	108-05-4	<0.007

TSCA STATUS:

All chemical substances used in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

CERCLA:

The following chemicals are listed by CERCLA:

CHEMICAL	CAS NUMBER	% (WEIGHT)	CERCLA RQ(lbs)
Methyl Ethyl Ketone	78-93-3	79.0-75.0%	5,000

CALIFORNIA PROP 65:

This product contains the following chemicals listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm:

Chemical	CAS NUMBER	% (WEIGHT)
Chloroethane	75-01-4	Trace
Trichloroethylene	79-01-6	<0.007
Carbon Black	1333-86-4	<5

Section 16. Other Information

Revision Date:

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Additional Information About this Product:

Company Policy or Disclaimer

The information and data stated herein, although in no way guaranteed, are based upon tests and reports considered to be reliable and are believed to be accurate. However, in no event will the above named supplier assume any liability whatsoever for the accuracy or completeness of the information contained herein. It is the responsibility of the person(s) and/or entities receiving these materials to determine the suitability for their intended uses and applications. All materials may present unknown hazards and should be used with caution. Potential hazards include but are not limited to those reported herein.