Safety Data Sheet
Part Number: 51-0003-01
Name: Ink, MEK Blue Soft Pigment

Date:8/6/15

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: 51-0003-01
Product Name: Ink, MEK Blue Soft 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, 76140
Website www.bestcode.co **Email** info@bestcode.co
Phone 817-349-8555 **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 2
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 vapour
H319 Causes serious eye irritation
H336 May cause drowsiness or dizziness

GHS Precaution Phrases:

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 Emergency Overview
EMERGENCY OVERVIEW: Avoid inhalation. Do not ingest. Avoid contact with skin, eyes and clothing.

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	80.0-90.0%	201-159-0 606-002-00-3	Flam. Liq. 2: H225 Eye Damage 2: H319 TOST (SE) 3: H335 H336

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: 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 Important Symptoms and Effects, Both Acute and Delayed:

Note for the Doctor: MEK 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 (or organ systems) may be aggravated by exposure to this material: skin lung (for example, asthma-like conditions).

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: 11.5%

Autoignition Point: 404.00 °C

5.3 Fire Fighting Instructions: Unusual Fire & Explosion Hazards: Material can accumulate static charge, which can cause an incendiary electrical discharge. This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.
Hazardous Combustion Products: Fire creates toxic gases/vapors/fumes or carbon monoxide (CO), carbon dioxide (CO2) and/or nitrous oxides.

Special Procedures: Keep run-off water out of sewer 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 the fire area if it can be done without risk. Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity.
Personal Protective Equipment: Wear approved/certified self-contained breathing apparatus and full protective gear.

Section 6. Accidental Release Measures

6.1 Protective Precautions, Protective Equipment and Emergency Procedures: Chemical splash goggles, protective clothing, gloves. Use approved respirator if air contamination is above accepted risk level.

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

Section 7. Handling and Storage

7.1 Precautions to be taken when 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 Precautions to be Taken in Storing: 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.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters

CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
78-93-3	Butanone (MEK)	TWA: 600 mg/m3 (200 ppm) STEL: 899 mg/m3 (300 ppm)	TWA: 600 mg/m3 (200 ppm) STEL: 900 mg/m3 (300 ppm)	TWA: 600 mg/m3 STEL: 900 mg/m3

CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
78-93-3	Butanone (MEK)	PEL: 200 ppm	TLV: 200 ppm STEL: 300 ppm	

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 bath, safety shower

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

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

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respiratory Equipment (Specify Type): None expected to be needed under normal conditions. However, use NIOSH approved half mask air purifying respirator, if needed.

Hygenic 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:	[ ] Gas	[X] Liquid	[ ] Solid	
Appearance and Odor:	Blue, Characteristic Ketone			
Melting Point:				
Boiling Point:	79°C			
Flash Pt:	-8° C	Method Used:	Estimate	
Evaporation Rate:				
Explosive Limits:	LEL:	1.9%	UEL:	10.0%
Vapor Pressure (vs. Air or mm Hg):	69.7 mmHg			
Vapor Density (vs. Air = 1):	1.0			
Specific Gravity (Water = 1):				
Density:	7.04 LB/GA			
VOC LB/GAL	6.23			
Solubility in Water:	Not Miscible			
Autoignition Pt:	450°C			

9.2 Other Information
Percent Volatile:

Section 10. Stability and Reactivity

10.1 Reactivity

10.2 Stability Unstable [ ] Stable [X]

10.3 Conditions To Avoid - Hazardous Reactions:
Possibility of Hazardous Reactions: Will occur [ ] Will not occur [X]

10.4 Conditions to Avoid - Instability All ignition sources.

10.5 Incompatibility – Materials to Avoid This product is incompatible with strong oxidizing agents, strong bases, strong alkalis, copper, copper alloys, and reducing agents.

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

Section 11. Toxicological Information

11.1 Mixture Toxicity
Oral Toxicity: 2,624mg/kg

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

Eye Irritation: Eye contact: Irritating to eyes.
Skin Irritation: Skin Contact: Irritating to skin.
Toxicity Studies: The toxicity of this product has not been tested.
Mutagenicity Data: None of the components of this product are considered to be mutagens.
Carcinogenicity Data: None of the components of this product are considered to be carcinogens.
REPRODUCTIVE/TERATOLOGY DATA: 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.

11.2.1 Routes of Entry **Inhalation, Skin Contact, Eye Contact, Ingestion**
11.2.2 Target Organs Kidneys, Liver, Skin

11.3 Effects of Overexposure

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, ehadache, or nausea. May casue eye, skin andrespiratory tract irritation. Prolonged or repeated contact may dry skin, cause irritation and burns. May be harmful if inhaled or swallowed.
Symptoms inclued stinging, tearing redness and swellilng 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.

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:**	Not Determined
12.5	**Results of PBT and vPvB assessment:**	Not Determined

Section 13. Disposal Considerations

13.1 Waste Disposal Method: 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.

Contaminated Packaging: Dispose of material in accordance with applicable local, state, or federal regulations.

SPECIAL PRECAUTIONS: None

Section 14. Transport Information

GHS Classification Flammable Liquids, Category 2 - 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

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]

DOT Hazard Class: 3 FLAMMABLE LIQUID
UN/NA Number: UN 1210 Packing Group: II

14.2 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

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

15.1 US Federal Regulations

SARA 313

Section 311/312 Categorization (40 CFR 372): This product is a hazardous chemical under 29 CFR 1910.1200, and is categorized as an IMMEDIATER 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 Name	CAS Number	% Weight
Methyl Ethyl Ketone	78-93-3	80.0-90.0%

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 Name	CAS Number	% Weight	CERCLA RQ(lbs)
Methyl Ethyl Ketone	78-93-3	80.0-90.0%	5,000

15.2 California Proposition 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 Name	CAS Number	% (Weight)
Vinyl Chloride	75-01-4	

15.3 SVHC

If any of the chemicals fall on the SVHC list, they are listed in this section. If none are present or are below 0.1% in the formula, then None is listed.
- None

Section 16. Other Information

Revision Date: 8/6/15

Additional Information About this Product:

Company Policy or 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.