

Safety Data Sheet

Product Number: 51-0003-02 Date: 1/18/2023
Product Name: Ink, MEK Blue Soft Pigment Revision: C

Based upon Regulation (EC) No 1907/2006 (Reach), as amended by Regulation (EU) 2020/878

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Name: **Ink, MEK Blue Soft Pigment**
Registration **Not Relevant (Mixture)**
Product Code: **51-0003-02**

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 liquid, Category 2
Eye Corrosive, Category 2
Specific Target Organ Toxicity, Single Exposure –Narcotic effects – Respiratory tract irritation - Category 3

2.2 Label elements

Labelling according to regulation (EC) No 1272/2008(CLP)



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
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P312 Call a POISON CENTER or doctor/physician if you feel unwell
P370+P378 In case of fire: Use:foam/dry chemical refer to SDS Evacuate area. Fight fire remotely due to the risk of explosion for extinction
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

Supplemental Hazard Information

EUH066 Repeated exposure may cause skin dryness or cracking
EUH208 Contains 7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 7-oxabicyclo[4.1.0]hept-3-yl methyl - ester. May produce an allergic reaction

2.3 Other Hazards

Section 3: Composition/information on ingredients

3.1 Substances:

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3.2 Mixtures:

Methyl Ethyl Ketone	CAS No: 78-93-3 EC No: 201-159-0 Index No: 606-002-00-3 REACH Reg. No: 01-2119457290-43-xxxx	75.0-90.0%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;
7-Oxabicyclo[4.1.0] heptane-3-carboxylic acid, 7-oxabicyclo[4.1.0] hept-3-yl methyl ester	CAS No: 2386-87-0 EC No: 219-207-4	<1.0%	Skin Sens. 1B: H317

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.
General Notes:

4.2 Most Important symptoms and effects, both acute and delayed

None under normal use

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician: 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).



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Section 5: Fire Fighting Measures

5.1 Extinguishing media

Use: foam, dry chemical, water spray.

5.2 Special hazards arising from the substance or mixture

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.

5.3 Advice for firefighters

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 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Evacuate

6.1.2 For emergency responders

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.



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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

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 PELs	Ontario, CA
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78-93-3	Methyl Ethyl Ketone	200 ppm TWA	PELs 200 ppm STELs 300 ppm	STELs 300 ppm PELs 200 ppm
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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	TWA: 590 mg/m ³ (200 ppm)	STELs 300 ppm TWAs 200 ppm	TWA: 590 mg/m ³ STEL: 900 mg/m ³

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	TWA: 150 mg/m ³ (50 ppm) STEL: 300 mg/m ³ (100 ppm) (15 min)	TWA: 590 mg/m ³ (200 ppm) STEL: 885 mg/m ³ (300 ppm)	TWA: 600 mg/m ³ (200 ppm) STEL: 899 mg/m ³ (300 ppm)



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CAS #	Hazardous components	Switzerland OEL	Japan OEL	
78-93-3	Methyl Ethyl Ketone		TWA: 750 ppm	

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

Local exhaust to minimize exposure to vapor and particulate matter. Eye bath, safety shower.

8.2.2 Individual protection measures, such as personal protective equipment

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. Safety glasses and Gloves

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

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:	Blue Liquid		
Odor:	Characteristic ketone	Odor threshold:	-
pH:	-	Melting point:	-
Boiling range:	79C	Flash point:	-8C, 18F
Evaporation rate:	-	Upper Explosive Limit:	-
		Lower Explosive Limit:	-
Flammability:	Highly flammable liquid and vapor	Vapor Pressure:	-
Vapor density:	1.0	Relative Density:	0.844
Solubility(ies):	Not Miscible	Partition coefficient n-octanol/water:	-
Auto-ignition temperature:	450°C	Decomposition temperature:	-
Viscosity:	-		
Explosive properties:	-		
Oxidizing properties:	-		



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9.2 Other information:

Miscibility:	-	VOC:	6.23lb/gal
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Section 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

This product is stable under normal conditions.

10.3 Possibility of hazardous reactions

This product is stable under normal conditions.

10.4 Conditions to avoid:

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10.5 Incompatible materials:

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

10.6 Hazardous decomposition products

CONDITIONS TO AVOID: All ignition sources.

Hazardous Decomposition 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:	The toxicity of this product has not been tested.
Skin corrosion/irritation:	Irritating to skin.
Serious eye damage/irritation:	Irritating to eyes.
Respiratory or skin sensitization:	Shall not be classified as a respiratory or skin sensitizer.
Germ cell mutagenicity:	Shall not be classified as germ cell mutagenic.
Carcinogenicity:	Shall not be classified as carcinogenic.
Reproductive toxicity:	Butanone has been shown to cause harm to the fetus in



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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:

STOT-repeated exposure:

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.1.1 Hazard Class information:

11.1.2 Mixture toxicity:

Oral Toxicity LD50: 2,624mg/kg

78-93-3 Methyl Ethyl Ketone

Oral LD50: 2,300 mg/kg (rat)

Dermal LD50: 5 g/kg (rabbit)

11.1.3 Critical studies:

11.1.4 Non-compliance hazard class:

11.1.5 Information on likely routes of exposure:

Inhalation, Skin Contact, Eye Contact, Ingestion

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:

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.



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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:

Target Organs: Kidneys, Liver, Skin

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

12.6 Other adverse effects: Not determined



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Section 13: Disposal considerations

13.1 Waste treatment methods:

Disposal Procedures: 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]
	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:

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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 5000lb	No

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

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

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

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	Yes KE-29367	Listed

CAS #	Hazardous components	Taiwan TCSCA	Singapore HSL	Israel HSL:
78-93-3	Methyl Ethyl Ketone	Listed	No	No

CAS #	Hazardous components	Germany WHCS	Switzerland Giftliste 1	Switzerland INNS
78-93-3	Methyl Ethyl Ketone	Yes – 150	Yes G-2429	No

CAS #	Hazardous components	REACH	Kyoto GHG	Rotterdam
78-93-3	Methyl Ethyl Ketone	Yes - (R), (P)	No	No

CAS #	Hazardous components	Stockholm		
78-93-3	Methyl Ethyl Ketone	No		



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15.2 Chemical safety assessment

Section 16: Other information

Revision Date: 4/5/2021

Revision Notes: C: Updated Sections 1,2 and 3 for EU 2020/878

Additional Information:

Company Disclaimer:

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