

Safety Data Sheet

Product Number: 51-0037-01

Product Name: Ink, MEK, Grey/Silver Opaque

Date: 1/18/2023

Revision:

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, Grey/Silver Opaque**

Registration **Not Relevant (Mixture)**

Product Code: **51-0037-01**

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 Liquid 2 - H225

Serious Eye Damage/Eye Irritation 2 - H319

Specific Target Organ Toxicity (Single Exposure- Narcotic Effects, Drowsiness) 3 - H336

2.2 Label elements

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





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Signal word: Danger

Hazard statements:

H225 Highly flammable liquid and vapor.

H319 Causes serious eye damage.

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

Hazardous Ingredients for Labelling

Methyl Ethyl Ketone, Cyclohexanone, n-Butyl Acetate

2.3 Other Hazards

N/A

Section 3: Composition/information on ingredients

3.1 Substances:

Not Relevant (Mixture)

3.2 Mixtures:

Name of Substance	Identifier	Concentration	GHS Classification
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	50.0-75.0%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;

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n-Butyl Acetate	CAS No: 123-86-4 EC No: 204-658-1 Index No: 607-025-00-1 REACH Reg. No: 01-2119485493-29-xxxx	5.0-10.0%	Flam. Liq. 3: H226 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

General Notes: Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Inhalation: If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Eyes: Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Skin: Wash with plenty of soap and water.

Ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most Important symptoms and effects, both acute and delayed

General Information: Narcotic effects.

Inhalation: N/A

Ingestion: N/A

Skin Contact: N/A

Eye Contact: N/A

4.3 Indication of any immediate medical attention and special treatment needed

Notes to doctor: No recommendation given.



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Section 5: Fire Fighting Measures

5.1 Extinguishing media

Water spray, BC-powder, Carbon dioxide (CO2).. Do not use water jet.

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products: Carbon monoxide (CO), Carbon dioxide (CO2)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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

W Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental Precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it

6.3 Methods and material for containment and cleaning up

6.3.1 For Containment:

Covering of drains. Use of adsorbent materials.

6.3.2 Clean up and disposal of spill:

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Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder. Place in appropriate containers for disposal. Ventilate affected area

Section 7: Handling and storage

7.1 Precautions for safe handling

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. -Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any compatibilities

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight. Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight. Use local and general ventilation. Ground/bond container and receiving equipment. Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

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	TLV: 200 ppm STEL: 300 ppm	TWA: 295 mg/m3 (100 ppm) STEL: 590 mg/m3 (200 ppm)	TWA: 445 mg/m3 (150 ppm) STEL: 890 mg/m3 (300 ppm)
123-86-4	n-Butyl Acetate	150ppm		STELs - (MAK-KZWs) 100 ppm TWAs - (MAK-TMWs) 100

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CAS #	Hazardous components	Belgium OEL	California, USA PELs	Ontario, CA
78-93-3	Methyl Ethyl Ketone	TWA: 600 mg/m ³ (200 ppm) STEL: 900 mg/m ³ (300 ppm)	TWA: 590 mg/m ³ (200 ppm) STEL: 885 mg/m ³ (300 ppm)	TWA: 200 ppm STEL: 300 ppm
123-86-4	n-Butyl Acetate	STELs 200 ppm TWAs 150 ppm	STELs 200 ppm	STELs 200 ppm TWAs 150 ppm

CAS #	Hazardous components	China	Québec, CA	German AGS
78-93-3	Methyl Ethyl Ketone	TWA: 300 mg/m ³ STEL: 600 mg/m ³ (15 min)	TWA: 150 mg/m ³ (50 ppm) STEL: 300 mg/m ³ (100 ppm)	TWA: 600 mg/m ³ (200 ppm) STEL: 600 mg/m ³ (200 ppm) (15 min)
123-86-4	n-Butyl Acetate		STELs 200 ppm TWAs 150 ppm	TWAs (AGWs) 62 ppm

CAS #	Hazardous components	Germany MAK/TRK	Denmark OEL	Spain OEL
78-93-3	Methyl Ethyl Ketone	TWA: 295 mg/m ³ (100 ppm) STEL: 600 mg/m ³ (200 ppm) (30min) (4x)	TWA: 145 mg/m ³ (50 ppm) STEL: 290 mg/m ³ (100 ppm)	TWA: 600 mg/m ³ (200 ppm) STEL: 900 mg/m ³ (300 ppm)
123-86-4	n-Butyl Acetate	TWAs 100 ppm		STELs 200 ppm TWAs (VLA-EDs) 150 ppm

CAS #	Hazardous components	Europe	Finland OEL	France VL
78-93-3	Methyl Ethyl Ketone	TWA: 600 mg/m ³ (200 ppm) STEL: 900 mg/m ³ (300 ppm)	STEL: 300 mg/m ³ (100 ppm) (15 min)	TWA: 600 mg/m ³ (200 ppm) STEL: 900 mg/m ³ (300 ppm)
123-86-4	n-Butyl Acetate		TWAs 150 ppm	OSTELs (VLCT) 200 ppm TWAs (VME) 150 ppm

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CAS #	Hazardous components	Hungary OEL	Ireland OEL	Italy OEL
78-93-3	Methyl Ethyl Ketone	TWA: 600 mg/m ³ STEL: 900 mg/m ³	TWA: 600 mg/m ³ (200 ppm) STEL: 900 mg/m ³ (300 ppm) (15 min)	TWA: 600 mg/m ³ (200 ppm) STEL: 900 mg/m ³ (300 ppm)
123-86-4	n-Butyl Acetate	STELs (CKs) 950 mg/m ³ TWAs (AKs) 950 mg/m ³	STELs 200 ppm TWAs 150 ppm	(STEL) 200 ppm (TWA) 150 ppm

CAS #	Hazardous components	South Korea	Latvia OEL	Mexico OEL
78-93-3	Methyl Ethyl Ketone	TWA: 590 mg/m ³ (200 ppm) STEL: 885 mg/m ³ (300 ppm)	TWA: 200 mg/m ³ (67 ppm) STEL: 900 mg/m ³ (300 ppm) (15 min)	TWA: 590 mg/m ³ (200 ppm) STEL: 885 mg/m ³ (300 ppm)
123-86-4	n-Butyl Acetate	STELs 200 ppm TWAs 150 ppm	TWAs 200 mg/m ³	STELs (LMPE-CTs) 200 ppm TWAs (LMPE-PPTs) 150 ppm

CAS #	Hazardous components	Malaysia OEL	NIOSH	Netherlands OEL
78-93-3	Methyl Ethyl Ketone	TWA: 590 mg/m ³ (200 ppm)	TWA: 200 ppm STEL: 300 ppm	TWA: 590 mg/m ³ STEL: 900 mg/m ³
123-86-4	n-Butyl Acetate		STELs 200 ppm TWAs 150 ppm	

CAS #	Hazardous components	New Zealand	OSHA PELs	Poland
78-93-3	Methyl Ethyl Ketone	TWA: 445 mg/m ³ (150 ppm) STEL: 890 mg/m ³ (300 ppm)	PEL: 200 ppm	TWA: 450 mg/m ³ STEL: 900 mg/m ³
123-86-4	n-Butyl Acetate	STELs 200 ppm TWAs 150 ppm	150ppm	STELs (NDSchs) 950 mg/m ³ TWAs (NDSSs) 200 mg/m ³

CAS #	Hazardous components	Sweden OEL	Singapore	Britain EH40
78-93-3	Methyl Ethyl Ketone	TWA: 150 mg/m ³ (50 ppm)	TWA: 590 mg/m ³ (200 ppm)	TWA: 600 mg/m ³ (200 ppm)

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		STEL: 300 mg/m ³ (100 ppm) (15 min)	STEL: 885 mg/m ³ (300 ppm)	STEL: 899 mg/m ³ (300 ppm)
123-86-4	n-Butyl Acetate	STELs (STVs) 150 ppm TLVs (LLVs) 100 ppm	STELs 200 ppm	STELs 200 ppm WELs - TWAs 150 ppm

CAS #	Hazardous components	Switzerland OEL	Japan OEL	
78-93-3	Methyl Ethyl Ketone			
123-86-4	n-Butyl Acetate			

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

General ventilation.

8.2.2 Individual protection measures, such as personal protective equipment

Eye/Face protection:

Wear eye/face protection.

Skin protection:

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Hygienic Practices:

Provide eyewash station. Wash promptly if skin becomes contaminated. Promptly remove non-impervious clothing that becomes contaminated. When using do not eat, drink or smoke.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	White Liquid		
Odor:	Pungent	Odor threshold:	-
pH:	-	Melting point:	-
Boiling range:	79°C	Flash point:	-8°C
Evaporation rate:	-	Upper Explosive Limit:	-

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		Lower Explosive Limit:	-
Flammability:	-	Vapor Pressure:	10.15hPa at 18.49°C
Vapor density:	-	Relative Density:	0.828
Solubility(ies):	Insoluble in water.	Partition coefficient n-octanol/water:	-
Auto-ignition temperature:	415°C	Decomposition temperature:	-
Viscosity:	-		
Explosive properties:	-		
Oxidizing properties:	-		

9.2 Other information:

VOC:	5.86 lb/gal
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Section 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s).

If heated: Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials:

Oxidizers.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

Section 11: Toxicological information

11.1 Information on Toxicological effects

Acute toxicity: Shall not be classified as acutely toxic



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Skin corrosion/irritation:	Shall not be classified as corrosive/irritant to skin.
Serious eye damage/irritation:	Causes serious eye damage.
Ingestion:	
Inhalation:	
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:	Shall not be classified as a reproductive toxicant.
STOT-single exposure:	May cause drowsiness or dizziness
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:

11.1.3 Critical studies:

11.1.4 Non-compliance hazard class:

11.1.5 Information on likely routes of exposure:

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:

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:



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Section 12: Ecological information

12.1 Toxicity: Shall not be classified as hazardous to the aquatic environment

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: Endocrine disrupting potential

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
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 5000LB	No
123-86-4	n-Butyl Acetate	No	No	No

CAS #	Hazardous components	Canadian NPRI	Canadian Toxic	Canadian DSL
78-93-3	Methyl Ethyl Ketone	Yes	No	Yes
123-86-4	n-Butyl Acetate	Yes		Yes

CAS #	Hazardous components	CAA HAP, ODC	CWA NPDES	TSCA
78-93-3	Methyl Ethyl Ketone	No	No	Yes - Inv
123-86-4	n-Butyl Acetate			Yes - Inv

CAS #	Hazardous components	CA Prop 65	Mexico INSQ	Australia ICS
78-93-3	Methyl Ethyl Ketone	No	Yes - 1193	Listed
123-86-4	n-Butyl Acetate	No	Listed	Listed

CAS #	Hazardous components	New Zealand IOC	China IECSC	Japan ENCS
78-93-3	Methyl Ethyl Ketone	Listed	Listed	Yes - 2-542
123-86-4	n-Butyl Acetate	Listed	Listed	Yes

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CAS #	Hazardous components	Japan ISHL	Korea ECL	Philippines
78-93-3	Methyl Ethyl Ketone	Listed	Yes KE-24094	Listed
123-86-4	n-Butyl Acetate	Listed	Yes	Listed

CAS #	Hazardous components	Taiwan TCSCA	Singapore HSL	Israel HSL:
78-93-3	Methyl Ethyl Ketone	Listed	No	No
123-86-4	n-Butyl Acetate	Listed		

CAS #	Hazardous components	Germany WHCS	Switzerland Giftliste 1	Switzerland INNS
78-93-3	Methyl Ethyl Ketone	Yes – 150	Yes G-2429	No
123-86-4	n-Butyl Acetate			

CAS #	Hazardous components	REACH	Kyoto GHG	Rotterdam
78-93-3	Methyl Ethyl Ketone	Yes - (R), (P)	No	No
123-86-4	n-Butyl Acetate	No		

CAS #	Hazardous components	Stockholm		
78-93-3	Methyl Ethyl Ketone	No		
123-86-4	n-Butyl Acetate			

Canadian WHMIS Classification:

15.2 Chemical safety assessment

Section 16: Other information

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Additional Information:

Company Disclaimer:

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