

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: Makeup, MEK/Ethyl Acetate
Product Code: 52-0005-01

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 Liquids, Category 2
Serious Eye Damage/Irritation, Category 2
Specific Target Organ Toxicity (single exposure), Category 3

2.2 Label elements



Signal word: Danger

Safety Data Sheet

Product Number: 52-0005-01 Date: 6/24/2022
Product Name: Makeup, MEK/Ethyl Acetate Revision: A

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.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting/.../ equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P264 - Wash hands thoroughly after handling.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - 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 center/doctor if you feel unwell.
P370+378 - In case of fire, use carbon dioxide, dry chemical powder or appropriate foam to extinguish.
P403+233 - Store container tightly closed in well-ventilated place.
P403+235 - Store in cool/well-ventilated place.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local regulations.

2.3 Other Hazards

Safety Data Sheet

Date: 6/24/2022
 Product Number: 52-0005-01 Revision: A
 Product Name: Makeup, MEK/Ethyl Acetate

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	50.0 – 75%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; EUH066
141-78-6	205-500-4 607-022-00-5	Ethyl Acetate	25.0-50.0%	Flam. Liq. 2: H225 Eye Damage 2: H319 STOT (SE) 3: H336

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

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to doctor: Contains Ketones, vomiting may cause aspiration pneumonia

Section 5: Fire Fighting Measures

5.1 Extinguishing media

SUITABLE: Water spray, BC-powder, Carbon dioxide (CO₂)

UNSUITABLE: 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

Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill.

Safety Glasses, Chemical Gloves, Approved Respirator, Chemical Apron, Rubber Boots

6.1.1 For non-emergency personnel

Evacuate

6.1.2 For emergency responders

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:

Use sand or inert non-combustible absorbent pads to prevent spill from spreading, Prevent spill from entering the environment, waterways, sewers, basements or confined areas

6.3.2 Clean up and disposal of spill:

Use sand or inert non-combustible absorbent pads or material. Collect product using non-sparking tools and place into approved container for proper disposal. Dispose of material in accordance with all State and Federal Guidelines and Regulations, Contact a licensed waste disposal contractor for proper disposal.

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.



Safety Data Sheet

Date: 6/24/2022

Product Number: 52-0005-01

Revision: A

Product Name: Makeup, MEK/Ethyl Acetate

Section 8: Exposure control/personal protection

CAS #	Chemical Name	Australia	Austria	Belgium
141-78-6	Ethyl Acetate	TWA: 200ppm (720mg/m ³) STEL: 400ppm (1440 mg/m ³)	TWA: 200ppm (734mg/m ³) STEL: 400ppm (1468mg/m ³)	TWA: 200ppm (734mg/m ³) STEL: 400ppm (1468mg/m ³)
78-93-3	Methyl Ethyl Ketone	TWA 150ppm (445mg/m ³) STEL 300ppm (890mg/m ³)	TWA 100ppm (295mg/m ³) STEL 200ppm (590mg/m ³)	TWA 200ppm (600mg/m ³) STEL 300ppm (900mg/m ³)

CAS #	Chemical Name	Ontario, CA	Québec, CA	Denmark
141-78-6	Ethyl Acetate	TWA: 400ppm	TWA: 400ppm (1440mg/m ³)	TWA: 150ppm (540mg/m ³) STEL: 300ppm (1080mg/m ³)
78-93-3	Methyl Ethyl Ketone	TWA 200ppm STEL 300ppm	TWA 50ppm (150mg/m ³) STEL 100ppm (300mg/m ³)	TWA 50ppm (145mg/m ³) STEL 100ppm (290mg/m ³)

CAS #	Chemical Name	European Union	Finland	France
141-78-6	Ethyl Acetate	TWA: 200ppm (734mg/m ³) STEL: 400ppm (1468mg/m ³)	TWA: 200ppm (730mg/m ³) STEL: 400ppm (1470mg/m ³)	TWA: 200ppm (734mg/m ³) STEL: 400ppm (1468mg/m ³)
78-93-3	Methyl Ethyl Ketone	TWA 200ppm (600mg/m ³) STEL 300ppm (900mg/m ³)	TWA 20ppm (60mg/m ³) STEL 100ppm (300mg/m ³)	TWA 200ppm (600mg/m ³) STEL 300ppm (900mg/m ³)

CAS #	Chemical Name	German AGS	Germany DFG	Hungary
141-78-6	Ethyl Acetate	TWA: 200ppm (730mg/m ³) STEL: 400ppm (1460mg/m ³)	TWA: 200ppm (730mg/m ³) STEL: 400ppm (1500mg/m ³)	TWA: (1400mg/m ³) STEL: (1400mg/m ³)



Safety Data Sheet

Date: 6/24/2022

Product Number: 52-0005-01

Revision: A

Product Name: Makeup, MEK/Ethyl Acetate

78-93-3	Methyl Ethyl Ketone	TWA 200ppm (600mg/m3) STEL 200ppm (600mg/m3)	TWA 200ppm (600mg/m3) STEL 200ppm (600mg/m3)	TWA (600mg/m3) STEL (900mg/m3)
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CAS #	Chemical Name	Ireland	Italy	Latvia
141-78-6	Ethyl Acetate	TWA: 200ppm (734mg/m3) STEL: 400ppm (1468mg/m3)	TWA: 200ppm (734mg/m3) STEL: 400ppm (1468mg/m3)	TWA: 54ppm (200mg/m3) STEL: 400ppm (1468mg/m3)
78-93-3	Methyl Ethyl Ketone	TWA 200ppm (600mg/m3) STEL 200ppm (600mg/m3)	TWA 200ppm (600mg/m3) STEL 200ppm (600mg/m3)	TWA 67ppm (200mg/m3) STEL 300ppm (900mg/m3)

CAS #	Chemical Name	New Zealand	PROC	Poland
141-78-6	Ethyl Acetate	TWA: 200ppm (720mg/m3)	TWA: (200mg/m3) STEL: (300mg/m3)	TWA: (734mg/m3) STEL: (1468mg/m3)
78-93-3	Methyl Ethyl Ketone	TWA 150ppm (445mg/m3) STEL 300ppm (890mg/m3)	TWA (300mg/m3) STEL (600mg/m3)	TWA (450mg/m3) STEL (900mg/m3)

CAS #	Chemical Name	Romania	Singapore	South Korea
141-78-6	Ethyl Acetate	TWA: 111ppm (400mg/m3) STEL: 139ppm (500mg/m3)	TWA: 400ppm (1440mg/m3)	TWA: 400ppm (1440mg/m3)
78-93-3	Methyl Ethyl Ketone	TWA 200ppm (600mg/m3) STEL 300ppm (900mg/m3)	TWA 200ppm (590mg/m3) STEL 300ppm (885mg/m3)	TWA 200ppm (590mg/m3) STEL 300ppm (885mg/m3)

Safety Data Sheet

Date: 6/24/2022

Product Number: 52-0005-01

Revision: A

Product Name: Makeup, MEK/Ethyl Acetate

CAS #	Chemical Name	Spain	Sweden	Switzerland
141-78-6	Ethyl Acetate	TWA: 200ppm (734mg/m ³) STEL: 400ppm (1460mg/m ³)	TWA: 150ppm (550mg/m ³) STEL: 300ppm (1100mg/m ³)	TWA: 200ppm (730mg/m ³) STEL: 400ppm (1470mg/m ³)
78-93-3	Methyl Ethyl Ketone	TWA 200ppm (600mg/m ³) STEL 200ppm (600mg/m ³)	TWA 500ppm (150mg/m ³) STEL 300ppm (900mg/m ³)	TWA 200ppm (590mg/m ³) STEL 200ppm (590mg/m ³)

CAS #	Chemical Name	The Netherlands	USA - NIOSH	United Kingdom
141-78-6	Ethyl Acetate	-	TWA: 400ppm (1400mg/m ³)	TWA: 200ppm (730mg/m ³) STEL: 400ppm (1460mg/m ³)
78-93-3	Methyl Ethyl Ketone	TWA (590mg/m ³) STEL (900mg/m ³)	TWA 200ppm (500mg/m ³) STEL 300ppm (885mg/m ³)	TWA 200ppm (600mg/m ³) STEL 300ppm (899mg/m ³)

CAS #	Chemical Name	OSHA PELs	ACGIH TLV	California, USA PELs
141-78-6	Ethyl Acetate	TWA: 400ppm (1400mg/m ³)	TWA: 400 ppm	PEL 400ppm (1400mg/m ³)
78-93-3	Methyl Ethyl Ketone	TWA 200ppm (590mg/m ³)	TWA 200ppm STEL 300ppm	TWA 200ppm (500mg/m ³) STEL 300ppm (885mg/m ³)

CAS #	Chemical Name	Mexico
141-78-6	Ethyl Acetate	PPT 400ppm
78-93-3	Methyl Ethyl Ketone	PPT 200ppm CT 300ppm

8.1 Control parameters

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

General ventilation. Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

Safety Data Sheet

Date: 6/24/2022
 Product Number: 52-0005-01 Revision: A
 Product Name: Makeup, MEK/Ethyl Acetate

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: 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:	Colorless Liquid (Upon aging, clear or colorless fluids may develop a slight yellow tint which will not affect the product performance).		
Odor:	Pungent	Odor threshold:	No data available
pH:	No data available	Melting point:	No data available
Boiling range:	77.1°C @ 101.3kPa	Flash point:	-8°C
Evaporation rate:	No data available	Upper Explosive Limit:	11.5%
		Lower Explosive Limit:	2.2%
Flammability:	No data available	Vapor Pressure:	9.187 kPa at 291.8 K
Vapor density:	> Air	Relative Density:	0.831 (H2O = 1 @ 20 °C)
Solubility(ies):	No data available	Partition coefficient n-octanol/water:	No data available
Auto-ignition temperature:	427°C	Decomposition temperature:	No data available
Viscosity:	~ 0.7 cP		
Explosive properties:	No data available		
Oxidizing properties:	No data available		
Percent Volatile:	No data available		

9.2 Other information:

Miscibility:	No data available	VOC:	6.94 lb/gal
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Section 10: Stability and reactivity

10.1 Reactivity

If heated: Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

Will not occur

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. GHS of the United Nations, annex 4: May be harmful if swallowed.
Skin corrosion/irritation:	Shall not be classified as corrosive/irritant to skin.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitization:	Shall not be classified as a respiratory or skin sensitizer
Ingestion:	No data available
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.



Safety Data Sheet

Product Number: 52-0005-01 Date: 6/24/2022
Product Name: Makeup, MEK/Ethyl Acetate Revision: A

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

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:

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability:

Data are not available.



Safety Data Sheet

Date: 6/24/2022

Product Number: 52-0005-01

Revision: A

Product Name: Makeup, MEK/Ethyl Acetate

12.3 Bioaccumulative potential:

Data are not available.

12.4 Mobility in soil:

This material is a partially mobile liquid

12.5 Results of PBT and vPvB assessment:

Data are not available.

12.6 Other adverse effects:

Data are not available.

Section 13: Disposal considerations

13.1 Waste treatment methods:

Waste treatment-relevant information

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Section 14: Transport information

14.1	UN number:	1210
14.2	Proper shipping name:	
	US DOT:	Printing Ink Related Material
	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]

Safety Data Sheet

Product Number: 52-0005-01 Date: 6/24/2022
 Product Name: Makeup, MEK/Ethyl Acetate Revision: A

	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)
141-78-6	Ethyl Acetate	-	-	-
78-93-3	Methyl Ethyl Ketone	-	-	-

CAS #	Hazardous components	TSCA	REACH	CERCLA
141-78-6	Ethyl Acetate	Active	-	5000lbs
78-93-3	Methyl Ethyl Ketone	Active	-	5000lbs

15.2 Chemical safety assessment



Safety Data Sheet

Date: 6/24/2022
Product Number: 52-0005-01 Revision: A
Product Name: Makeup, MEK/Ethyl Acetate

Section 16: Other information

Revision Date: 6/27/2022
Revision Notes: A: New Product SDS
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, data 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.