

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: **Ink, MEK Black**
Product Code: **51-0001-01**

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, Category 2
Eye corrosive, Category 2
Specific Target Organ Toxicity, Single Exposure – Narcotic Effects, Category 3

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)



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
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/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection
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 person to fresh air and keep comfortable for breathing.
P305+P351+P338 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+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container to industrial combustion plant.

2.3 Other Hazards

May be harmful if swallowed (GHS category 5: acutely toxic - oral).

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	50.0-75.0%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;

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64-17-5	200-578-6 603-002-00-5	Ethanol	5.0-10.0%	Flammable Liquids: Category 2 Serious Eye damage/ Irritation: Category 2A F;R11
67-63-0	200-661-7 603-117-00-0	Isopropyl alcohol	1.0-5.0%	Flam. Liq. 2: H225 Eye Damage 2: H319 STOT (SE) 3: H335 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

None

Section 5: Fire Fighting Measures

5.1 Extinguishing media

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

DO NOT USE: Direct, solid stream of water or foam.

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
Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate 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

Remove persons to safety.

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:

Covering of drains. Place in appropriate containers for disposal. Ventilate affected area.

6.3.2 Clean up and disposal of spill:

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal Binder. Use adsorbent materials.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8.
Incompatible materials: see section 10. Disposal considerations: see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Recommendations:

Measures to prevent fire as well as aerosol and dust generation:

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.

Specific notes/details:

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.

Advice on general occupational hygiene:

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 feeding stuffs.

7.2 Conditions for safe storage, including any compatibilities

Managing of associated risks:

Explosive atmospheres:

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

Flammability hazards

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.

Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.



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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
64-17-5	Ethanol	TLV: 1000 ppm	TWA: 1900 mg/m3 (1000 ppm) STEL: 3800 mg/m3 (2000 ppm)	TWA: 1880 mg/m3 (1000 ppm)
67-63-0	Isopropyl alcohol	TLV: 200 ppm STEL: 400 ppm	TWA: 500 mg/m3 (200 ppm) STEL: 2000 mg/m3 (800 ppm)	TWA: 983 mg/m3 (400 ppm) STEL: 1230 mg/m3 (500 ppm)

CAS #	Hazardous components	Belgium OEL	California, USA PELs	Ontario, CA
78-93-3	Methyl Ethyl Ketone	200 ppm TWA	PELs 200 ppm STELs 300 ppm	STELs 300 ppm PELs 200 ppm
64-17-5	Ethanol	TWA: 1907 mg/m3 (1000 ppm)	TWA: 1900 mg/m3 (1000 ppm)	STEL: 1000 ppm
67-63-0	Isopropyl alcohol	TWA: 500 mg/m3 (200 ppm) STEL: 1000 mg/m3 (400 ppm)	TWA: 980 mg/m3 (400 ppm) STEL: 1225 mg/m3 (500 ppm)	TWA: 200 ppm STEL: 400 ppm

CAS #	Hazardous components	China	Québec, CA	German AGS
78-93-3	Methyl Ethyl Ketone		STELs 100 ppm PELs 50 ppm	
64-17-5	Ethanol		TWA: 1880 mg/m3 (1000 ppm)	TWA: 960 mg/m3 (500 ppm) STEL: 1920 mg/m3 (1000 ppm) (15 min)
67-63-0	Isopropyl alcohol	TWA: 350 mg/m3 STEL: 700 mg/m3 (15 min)	TWA: 983 mg/m3 (400 ppm) STEL: 1230 mg/m3 (500 ppm)	TWA: 500 mg/m3 (200 ppm) STEL: 1000 mg/m3 (400 ppm) (15 min)

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CAS #	Hazardous components	Germany MAK/TRK	Denmark OEL	Spain OEL
78-93-3	Methyl Ethyl Ketone	200 ppm TWA	50 ppm TWA	
64-17-5	Ethanol	TWA: 1900 mg/m ³ (1000 ppm) STEL: 3800 mg/m ³ (2000 ppm) (60min) (3x) TWA: 960 mg/m ³ (500 ppm)	TWA: 1900 mg/m ³ (1000 ppm) STEL: 3800 mg/m ³ (2000 ppm)	STEL: 1910 mg/m ³ (1000 ppm)
67-63-0	Isopropyl alcohol	TWA: 500 mg/m ³ (200 ppm) STEL: 2000 mg/m ³ (15/30min)(4x) (800 ppm (15/30min) (4x))	TWA: 500 mg/m ³ (200 ppm) STEL: 980 mg/m ³ (400 ppm)	TWA: 500 mg/m ³ (200 ppm) STEL: 1000 mg/m ³ (400 ppm)

CAS #	Hazardous components	Europe	Finland OEL	France VL
78-93-3	Methyl Ethyl Ketone		STELs 100 ppm	300 ppm STEL 200 ppm TWA
64-17-5	Ethanol		TWA: 1900 mg/m ³ (1000 ppm) STEL: 2500 mg/m ³ (1300 ppm) (15 min)	TWA: 1900 mg/m ³ (1000 ppm) STEL: 9500 mg/m ³ (5000 ppm)
67-63-0	Isopropyl alcohol		TWA: 500 mg/m ³ (200 ppm) STEL: 620 mg/m ³ (250 ppm) (15 min)	STEL: 980 mg/m ³ (400 ppm)

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
64-17-5	Ethanol	TWA: 1900 mg/m ³ STEL: 7600 mg/m ³	STEL: 1000 ppm (15 min)	
67-63-0	Isopropyl alcohol	TWA: 500 mg/m ³ STEL: 2000 mg/m ³	TWA: 200 ppm STEL: 400 ppm (15 min)	

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



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64-17-5	Ethanol	TWA: 1900 mg/m3 (1000 ppm)	TWA: 1000 mg/m3	TWA: 1900 mg/m3 (1000 ppm)
67-63-0	Isopropyl alcohol	TWA: 200 ppm STEL: 400 ppm (15 min)	TWA: 350 mg/m3 STEL: 600 mg/m3 (15 min)	TWA: 980 mg/m3 (400 ppm) STEL: 1225 mg/m3 (500 ppm)

CAS #	Hazardous components	Malaysia OEL	NIOSH	Netherlands OEL
78-93-3	Methyl Ethyl Ketone		STELs 300 ppm TWAs 200 ppm	
64-17-5	Ethanol	TWA: 1880 mg/m3 (1000 ppm)	TWA: 1900 mg/m3 (1000 ppm)	TWA: 260 mg/m3 STEL: 1900 mg/m3
67-63-0	Isopropyl alcohol	TWA: 983 mg/m3 (400 ppm)	TWA: 980 mg/m3 (400 ppm) STEL: 1225 mg/m3 (500 ppm)	

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/m3 TWAs 450 mg/m3
64-17-5	Ethanol	TWA: 1880 mg/m3 (1000 ppm)	PEL: 1000 ppm	TWA: 1900 mg/m3
67-63-0	Isopropyl alcohol	TWA: 983 mg/m3 (400 ppm) STEL: 1230 mg/m3 (500 ppm)	PEL: 400 ppm	TWA: 900 mg/m3 STEL: 1200 mg/m3

CAS #	Hazardous components	Sweden OEL	Singapore	Britain EH40
78-93-3	Methyl Ethyl Ketone		PELs 200 ppm STELs 300 ppm	
64-17-5	Ethanol	TWA: 1000 mg/m3 (500 ppm) STEL: 1900 mg/m3 (1000 ppm) (15 min)	TWA: 1880 mg/m3 (1000 ppm)	TWA: 1920 mg/m3 (1000 ppm)
67-63-0	Isopropyl alcohol	TWA: 350 mg/m3 (150 ppm) STEL: 600 mg/m3 (250 ppm) (15 min)	TWA: 983 mg/m3 (400 ppm) STEL: 1230 mg/m3 (500 ppm)	TWA: 999 mg/m3 (400 ppm) STEL: 1250 mg/m3 (500 ppm)

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CAS #	Hazardous components	Switzerland OEL	Japan OEL	
78-93-3	Methyl Ethyl Ketone			
64-17-5	Ethanol			
67-63-0	Isopropyl alcohol	TWA: 500 mg/m ³ (200 ppm) STEL: 1000 mg/m ³ (400 ppm)		

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:

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:	Black Liquid		
Odor:	Pungent	Odor threshold:	-
pH:	-	Melting point:	-
Boiling range:	64.7 °C at 1,013 hPa	Flash point:	-8C, 18F
Evaporation rate:	-	Upper Explosive Limit:	13.5%
		Lower Explosive Limit:	2.5%
Flammability:	Highly flammable liquid and vapor	Vapor Pressure:	169.3 hPa at 25 °C



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Vapor density:	-	Relative Density:	0.893
Solubility(ies):	-	Partition coefficient n-octanol/water:	-
Auto-ignition temperature:	455°C	Decomposition temperature:	-
Viscosity:	-		
Explosive properties:	-		
Oxidizing properties:	-		

9.2 Other information:

Miscibility:	-	VOC:	6.18 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). Risk of ignition.

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. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

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.
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:



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11.1.11 Mixture vs Substance information:

11.1.12 Other information:

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: Not determined

Endocrine disrupting potential
None of the ingredients are listed.

Section 13: Disposal considerations

13.1 Waste treatment methods:

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

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

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

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Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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]
	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:	non-environmentally hazardous acc. to the dangerous goods regulations
14.6	Special precautions for user:	N/A
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	
		The cargo is not intended to be carried in bulk.

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
64-17-5	Ethanol	No	No	No
67-63-0	Isopropyl alcohol	No	No	Yes

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CAS #	Hazardous components	Canadian NPRI	Canadian Toxic	Canadian DSL
78-93-3	Methyl Ethyl Ketone	Yes	No	Yes
64-17-5	Ethanol	Yes	No	Yes
67-63-0	Isopropyl alcohol	Yes	No	Yes

CAS #	Hazardous components	CAA HAP, ODC	CWA NPDES	TSCA
78-93-3	Methyl Ethyl Ketone	No	No	Yes-Inv
64-17-5	Ethanol	No	No	Yes-Inv
67-63-0	Isopropyl alcohol	No	No	Yes-Inv

CAS #	Hazardous components	CA Prop 65	Mexico INSQ	Australia ICS
78-93-3	Methyl Ethyl Ketone	No	Yes – 1193	Yes
64-17-5	Ethanol	No	Yes	Yes
67-63-0	Isopropyl alcohol	No	Yes – 1219	Yes

CAS #	Hazardous components	New Zealand IOC	China IECSC	Japan ENCS
78-93-3	Methyl Ethyl Ketone	Yes	Yes	Yes 2-542
64-17-5	Ethanol	Yes	Yes	Yes 5-153
67-63-0	Isopropyl alcohol	Yes	Yes	Yes 2-207

CAS #	Hazardous components	Japan ISHL	Korea ECL	Philippines
78-93-3	Methyl Ethyl Ketone	No	Yes KE-24094	Yes
64-17-5	Ethanol	No	Yes KE-13217	Yes
67-63-0	Isopropyl alcohol	Yes 2-(08)-319	Yes KE-29363	Yes

CAS #	Hazardous components	Taiwan TCSCA	Singapore HSL	Israel HSL:
78-93-3	Methyl Ethyl Ketone	Yes	No	No
64-17-5	Ethanol	Yes	No	Yes-Cat
67-63-0	Isopropyl alcohol	Yes	No	Yes-Cat



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CAS #	Hazardous components	Germany WHCS	Switzerland Giftliste 1	Switzerland INNS
78-93-3	Methyl Ethyl Ketone	Yes – 150	Yes G-2429	No
64-17-5	Ethanol	Yes (R), (P)	Yes (R), (P)	Yes (R), (P)
67-63-0	Isopropyl alcohol	Yes (R), (P)	Yes (R), (P)	Yes (R), (P)

CAS #	Hazardous components	REACH	Kyoto GHG	Rotterdam
78-93-3	Methyl Ethyl Ketone	Yes (R), (P)	No	No
64-17-5	Ethanol	Yes (R), (P)	No	No
67-63-0	Isopropyl alcohol	Yes (R), (P)	No	No

CAS #	Hazardous components	Stockholm		
78-93-3	Methyl Ethyl Ketone	No		
64-17-5	Ethanol	No		
67-63-0	Isopropyl alcohol	No		

15.2 Chemical safety assessment

Section 16: Other information

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Revision Notes: Updated to new GHS format

Additional Information:

Company Disclaimer:

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