



## Safety Data Sheet

### 51-0005-02 Ink, MEK Yellow Soft Pigment

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2020/878; US OSHA 29CFR 1910.1200

Version 1.2 • Date of issue: 09-17-24

#### SECTION 1: Identification

##### 1.1 GHS Product identifier

Product name	Ink, MEK Yellow Soft Pigment
Product number	51-0005-02
Brand	BestCode (REACH Registration number not relevant - mixture)

##### 1.3 Recommended use of the chemical and restrictions on use

Uses advised against - Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household)

##### 1.4 Supplier's details

Name	BestCode
Address	3034 SE Loop 820 Fort Worth TX 76140 USA
Telephone	817-349-8555
email	Info@Bestcode.co

##### 1.5 Emergency phone number

Chem Tel. Inc. Toll Free	800-255-3924
International	813-248-0585

#### SECTION 2: Hazard identification

##### General hazard statement

Hazardous ingredients for labelling : Methyl Ethyl Ketone

##### 2.1 Classification of the substance or mixture

- Eye damage/irritation, Cat. 2A
- Specific target organ toxicity (single exposure), Cat. 3
- Flammable liquids, Cat. 2

## 2.2 GHS label elements, including precautionary statements

### Pictograms



### Signal word

**Danger**

### Hazard statement(s)

H335

May cause respiratory irritation

H336

May cause drowsiness or dizziness

H225

Highly flammable liquid and vapor

H319

Causes serious eye irritation

### Precautionary statement(s)

P261

Avoid breathing dust/fume/gas/mist/vapors/spray.

P264

Wash ... thoroughly after handling.

P271

Use only outdoors or in a well-ventilated area.

P280

Wear eye protection/face protection/protective gloves.

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.

P337+P313

If eye irritation persists: Get medical advice/attention.

P403+P233

Store in a well-ventilated place. Keep container tightly closed.

P405

Store locked up.

P501

Dispose of contents/container to ...

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/lighting/.../ equipment.

P242

Use only non-sparking tools.

P243

Take precautionary measures against static discharge.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P370+P378

In case of fire: Use ... to extinguish.

P403+P235

Store in a well-ventilated place. Keep cool.

## 2.3 Other hazards which do not result in classification

Results of PBT and vPvB assessments : Does not contain a PBT-/vPvB substance in a concentration of  $\geq 0,1\%$ .

Endocrine disrupting properties : Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0,1\%$



In case of skin contact	Wash off with soap and plenty of water.
In case of eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice.  Acute and delayed symptoms and effects: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms/effects, acute and delayed**

Narcotic effects

**4.3 Indication of immediate medical attention and special treatment needed, if necessary**

None

**SECTION 5: Fire-fighting measures**

**5.1 Suitable extinguishing media**

Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media - water jet

**5.2 Specific hazards arising from the chemical**

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<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

**5.3 Special protective actions for fire-fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

In case of fire and/or explosion do not breath 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**

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

**6.2 Environmental precautions**

Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

**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**

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.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Flammable liquids

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

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

<b>Substance</b>	Butan-2-one
<b>CAS No.</b>	78-93-3
<b>Remarks</b>	Methyl Ethyl Ketone (MEK)

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
<a href="#">Australia</a>	150	445	300	890
<a href="#">Austria</a>	100	295	200	590
<a href="#">Belgium</a>	200	600	300 (1)	900 (1)
<a href="#">Canada - Ontario</a>	200		300	
<a href="#">Canada - Québec</a>	50	150	100 (1)	300 (1)
<a href="#">Denmark</a>	50 (1)	145 (1)	100 (1)(2)	290 (1)(2)
<a href="#">European Union</a>	<b>200</b>	<b>600</b>	<b>300 (1)</b>	<b>900 (1)</b>
<a href="#">Finland</a>	20	60	100 (1)	300 (1)
<a href="#">France</a>	<b>200</b>	<b>600</b>	<b>300 (1)</b>	<b>900 (1)</b>
<a href="#">Germany (AGS)</a>	200 (1)	600 (1)	200 (1)(2)	600 (1)(2)
<a href="#">Germany (DFG)</a>	200 (1)	600 (1)	200 (1)(2)	600 (1)(2)
<a href="#">Hungary</a>		600 (1)		900 (1)(2)
<a href="#">Ireland</a>	200	600	300 (1)	900 (1)

**Safety Data Sheet**  
**Ink, MEK Yellow Soft Pigment**

Version 1.2 • Date of issue: 09-17-24

<a href="#">Israel</a>	200	590		
<a href="#">Italy</a>	200	600	300 (1)	900 (1)
<a href="#">Japan (MHLW)</a>	200			
<a href="#">Japan (JSOH)</a>	200	590		
<a href="#">Latvia</a>	67	200	300 (1)	900 (1)
<a href="#">New Zealand</a>	150	445	300	890
<a href="#">Norway</a>	75	220		
<a href="#">People's Republic of China</a>		300		600 (1)
<a href="#">Poland</a>		450 (1)		900 (1)(2)
<a href="#">Romania</a>	200	600	300 (1)	900 (1)
<a href="#">Singapore</a>	200	590	300	885
<a href="#">South Africa</a>	400 (1)		600 (1)(2)	
<a href="#">South Africa Mining</a>	200 (1)	600 (1)	300 (1)(2)	900 (1)(2)
<a href="#">South Korea</a>	200		300 (1)	
<a href="#">Spain</a>	200	600	300	900
<a href="#">Sweden</a>	50	150	300 (1)	900 (1)
<a href="#">Switzerland</a>	200	590	200	590
<a href="#">The Netherlands</a>	197 (1)	590 (1)	300 (1)(2)	900 (1)(2)
<a href="#">Turkey</a>	200	600	300 (1)	900 (1)
<a href="#">USA - NIOSH</a>	200	590	300 (1)	885 (1)
<a href="#">USA - OSHA</a>	200	590		
<a href="#">United Kingdom</a>	200 (1)	600 (1)	300 (1)(2)	899 (1)(2)

	Remarks
Belgium	(1) 15 minutes average value
Canada - Québec	(1) 15 minutes average value
Denmark	(1) Skin (2) 15 minutes average value
European Union	(1) 15 minutes average value <b>Bold-type: Indicative Occupational Exposure Limit Value (IOELV)</b>
Finland	(1) 15 minutes average value
France	<b>Bold type: Restrictive statutory limit values</b> Skin (1) 15 minutes average value
Germany (AGS)	(1) Skin (2) 15 minutes average value
Germany (DFG)	(1) Skin (2) 15 minutes average value
Hungary	(1) Skin (2) 15 minutes average value
Ireland	(1) 15 minutes reference period
Italy	(1) 15 minutes average value
Latvia	(1) 15 minutes average value
People's Republic of China	(1) 15 minutes average value
Poland	(1) Skin (2) 15 minutes average value
Romania	(1) 15 minutes average value

**Safety Data Sheet**  
**Ink, MEK Yellow Soft Pigment**

Version 1.2 • Date of issue: 09-17-24

South Africa	(1) Skin (2) 15 minutes average value
South Africa Mining	(1) Skin (2) 15 minutes average value
South Korea	(1) 15 minutes average value
Sweden	(1) 15 minutes average value
The Netherlands	(1) Skin (2) 15 minutes average value
Turkey	(1) 15 minutes average value
USA - NIOSH	(1) 15 minutes average value
United Kingdom	(1) Skin (2) 15 minutes average value

<b>Substance</b>	Cyclohexanone
<b>CAS No.</b>	108-94-1

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
<a href="#">Australia</a>	25	100		
<a href="#">Austria</a>	5	20	20	80
<a href="#">Belgium</a>	10 (1)	40,8 (1)	20 (1)(2)	81,6 (1)(2)
<a href="#">Canada - Ontario</a>	20		50	
<a href="#">Canada - Québec</a>	25 (1)	100 (1)		
<a href="#">Denmark</a>	10 (1)	41 (1)	20 (1)(2)	82 (1)(2)
<a href="#">European Union</a>	<b>10</b>	<b>40,8</b>	<b>20 (1)</b>	<b>81,6 (1)</b>
<a href="#">Finland</a>	10	41	20 (1)	82 (1)
<a href="#">France</a>	<b>10</b>	<b>40,8</b>	<b>20</b>	<b>81,6</b>
<a href="#">Germany (AGS)</a>	20 (1)	80 (1)	20 (1)(2)	80 (1)(2)
<a href="#">Hungary</a>		40,8 (1)		81,6 (1)(2)
<a href="#">Ireland</a>	10	40,8	20 (1)	81,6 (1)
<a href="#">Italy</a>	10 (1)	40,8 (1)	20 (1)(2)	81,6 (1)(2)
<a href="#">Japan (MHLW)</a>	20			
<a href="#">Japan (JSOH)</a>	25	100		
<a href="#">Latvia</a>	10	40,8	20 (1)	81,6 (1)
<a href="#">New Zealand</a>	25	100		
<a href="#">Norway</a>	10 (1)	40 (1)	20 (1)(2)	80 (1)(2)
<a href="#">People's Republic of China</a>		50		
<a href="#">Poland</a>		40 (1)		80 (1)(2)
<a href="#">Romania</a>	10	40,8	20 (1)	81,6 (1)
<a href="#">Singapore</a>	25	100		
<a href="#">South Africa</a>	40 (1)		100 (1)(2)	
<a href="#">South Africa Mining</a>	25	100	50 (1)	200 (1)

**Safety Data Sheet**  
**Ink, MEK Yellow Soft Pigment**

Version 1.2 • Date of issue: 09-17-24

<a href="#">South Korea</a>	25 (1)		50 (1)(2)	
<a href="#">Spain</a>	10 (1)	41 (1)	20 (1)(2)	82 (1)(2)
<a href="#">Sweden</a>	10	41	20 (1)	81 (1)
<a href="#">Switzerland</a>	25	100	50	200
<a href="#">The Netherlands</a>			12,3 (1)(2)	50 (1)(2)
<a href="#">Turkey</a>	10	40,8	20 (1)	81,6 (1)
<a href="#">USA - NIOSH</a>	25 (1)	100 (1)		
<a href="#">USA - OSHA</a>	50	200		
<a href="#">United Kingdom</a>	10 (1)	41 (1)	20 (1)(2)	82 (1)(2)

	Remarks
Belgium	(1) "D" absorption of the agent through the skin, mucous membranes or eyes is an important part of the total exposure. It can be the result of both direct contact and its presence in the air. (2) 15 minutes average value
Canada - Québec	(1) Skin
Denmark	(1) Skin (2) 15 minutes average value
European Union	(1) 15 minutes average value <b>Bold-type: Indicative Occupational Exposure Limit Value (IOELV)</b>
Finland	(1) 15 minutes average value
France	<b>Bold type: Restrictive statutory limit values</b>
Germany (AGS)	(1) Skin (2) 15 minutes average value
Hungary	(1) Skin (2) 15 minutes average value
Ireland	(1) 15 minutes reference period
Italy	(1) Skin (2) 15 minutes average value
Latvia	(1) 15 minutes average value
Norway	(1) Skin (2) 15 minutes average value
Poland	(1) Skin (2) 15 minutes average value
Romania	(1) 15 minutes average value
South Africa	(1) Skin (2) 15 minutes average value
South Africa Mining	(1) 15 minutes average value
South Korea	(1) Skin (2) 15 minutes average value
Spain	(1) Skin (2) 15 minutes average value
Sweden	(1) 15 minutes average value
The Netherlands	(1) Skin (2) 15 minutes average value
Turkey	(1) 15 minutes average value
USA - NIOSH	(1) Skin
United Kingdom	(1) Skin (2) 15 minutes average value



**8.2 Appropriate engineering controls**

General ventilation

**8.3 Individual protection measures, such as personal protective equipment (PPE)**

**Eye/face protection**

Wear eye/face protection

**Body protection**

Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Environmental exposure controls**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**SECTION 9: Physical and chemical properties**

Appearance (physical state, color, etc.)

Odor

Pungent

Odor threshold

No data available.

pH

No data available.

Melting point/freezing point

Not determined

Initial boiling point and boiling range

79 °C

Flash point

-8 °C 17.6 °F

Evaporation rate

No data available.

Flammability (solid, gas)

No data available.

Upper/lower flammability or explosive limits

No data available.

Vapor pressure

7 hPa at 30°C

Vapor density

No data available.

Relative density

7.26 lb/gal

Solubility(ies)

No data available.

Partition coefficient: n-octanol/water

No data available.

Auto-ignition temperature

420 °C

Decomposition temperature

Viscosity

No data available.

**Additional properties**

Physical state

Liquid

Color

Yellow

Explosive properties

None

Oxidizing properties

None

**Supplemental information regarding physical hazard classes**

VOC (Lb/gal) 5.99

Temperature class (USA, acc. to NEC 500) T2 (maximum permissible surface temperature on the equipment: 300°C)

## **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**

None under normal use conditions.

### **10.4 Conditions to avoid**

Avoid storing in direct sunlight and avoid extremes of temperature.

Heat, flames and sparks.

### **10.5 Incompatible materials**

Oxidizers

### **10.6 Hazardous decomposition products**

Other decomposition products - No data available In the event of fire: see section 5

## **SECTION 11: Toxicological information**

### **Information on toxicological effects**

#### **Acute toxicity**

Test data not available for complete mixture

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.

**Specific target organ toxicity (STOT) - single exposure**

May cause drowsiness or dizziness.

**Specific target organ toxicity (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.

**Additional information**

Repeated exposure may cause skin dryness or cracking.

## **SECTION 12: Ecological information**

**Toxicity**

Shall not be classified as hazardous to the aquatic environment.

**Persistence and degradability**

No data available on product

**Bioaccumulative potential**

No data available on product

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

Results of PBT and vPvB assessments : Does not contain a PBT-/vPvB substance in a concentration of  $\geq 0,1\%$ .

**Endocrine disrupting properties**

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0,1\%$

**Other adverse effects**

No data available

## **SECTION 13: Disposal considerations**

**Disposal methods**

**Product disposal**

Solvent reclamation/regeneration.

**Packaging disposal**

Dispose of as unused product.

**Waste treatment**

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**Sewage disposal**

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

**Other disposal recommendations**

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**

### **49 CFR US DOT**

UN Number: 1210

Class: 3

Packing Group: II

Proper Shipping Name: Printing ink,[flammable or] Printing ink related material [(including printing ink thinning or reducing compound),flammable]

Marine pollutant: -

Reportable quantity (RQ) - 6,196 lbs (2,813 kg) (Methyl Ethyl Ketone)

### **IMDG**

UN Number: 1210

Class: 3

Packing Group: II

EMS Number: F-E,S-D

Proper Shipping Name: Printing ink,[flammable or] Printing ink related material [(including printing ink thinning or reducing compound),flammable]

### **IATA**

UN Number: 1210

Class: 3

Packing Group: II

Proper Shipping Name: Printing ink,[flammable or] Printing ink related material [(including printing ink thinning or reducing compound),flammable]

## **SECTION 15: Regulatory information**

### **15.1 Safety, health and environmental regulations specific for the product in question**

#### **EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS # 78-93-3 Methyl Ethyl Ketone S.302 (EHS): No; S.304 RQ: Yes NA; S.313 (TRI): No.

CAS # 108-94-1 Cyclohexanone S.302 (EHS): No; S.304 RQ: No; S313 (TRI): No.

#### **California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987**

Warning this product could exposure you to chemicals listed by the state of California under the safe Drinking Water and Toxic Enforcement Act of 1989 (Proposition 65) as being known to cause cancer, birth defects, and/or reproductive harm. See [www.P65warnings.a.gov](http://www.P65warnings.a.gov) for more details.

#### **Other US EPA or State Lists**

CAS # 108-94-1 Methyl Ethyl Ketone CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes - inventory; CA Prop.65: No.

# Safety Data Sheet

## Ink, MEK Yellow Soft Pigment

Version 1.2 • Date of issue: 09-17-24

CAS # 108-94-1 Cyclohexanone CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes - inventory; CA Prop.65: No.

### International Regulatory Lists

**All chemicals in this product are compliant, except listed and/or active in regards to the following regulations:**

AU - AIIIC; CA - DSL; CA - NDSL; CN - IECSC; EU - ECSI; EU - REACH Reg.; JP - CSCL-ENCS; JP - ISHA-ENCS; KR - KECI; MX - INSQ; NZ - NZIoC; PH - PICCS; TR - CICR; TW - TCSI; US - TSCA

### Restrictions according to REACH, Annex XVII

CAS # 78-93-3 Methyl Ethyl Ketone  
Name acc. to inventory - flammable/pyrophoric  
Restriction - R40: No 40

CAS # 108-94-1 Cyclohexanone  
Name acc. to inventory - flammable/pyrophoric  
Restriction - R40: No 40

51-0005-02 - This product meets the criteria for classification in accordance with regulation No 1272/2008/EC

### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

CAS # 78-93-3 Methyl Ethyl Ketone  
Statutory code : 4, RQ pounds (Kg) 5000(2270)

CAS # 108-94-1 Cyclohexanone  
Statutory code : 4, RQ pounds (Kg) 5000(2270)

## 15.2 Chemical Safety Assessment

Chemical safety assesments for substances in this mixture were not carried out.

## SECTION 16: Other information

Revision Date : 09-17-24

### 16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their purposes. In no event shall BestCode be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages, whatsoever arising, even if BestCode has been advised of the possibility of such damages.