

# Material safety data sheet

Processed according to regulation (ES) No 1272/2008

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

INK 5199

Registration number: 5199

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Additive

### 1.3 Details of the supplier of the safety data sheet

**Name or business name :** AG-FOIL Bohemia s.r.o.  
**Place of business:** Bratislavská 3082, 690 02 Břeclav, Česká republika  
**Identification number:** 26955261  
**Phone:** +420 519 331 155  
**Information for the products:** + 420 519 323 815 or [www.agfoil.cz](http://www.agfoil.cz)  
**Information for the safety data sheet:** Vladimír Holomek: [v.holomek@agfoil.cz](mailto:v.holomek@agfoil.cz), +420 519 331 155

### 1.4 Emergency telephone number

Toxikologické informační středisko, CZ: Na Bojišti 1, 128 08 Praha 2, CZ: (24/7) 224 919 293, 224 915 402, 224 914 575

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Flam. Liq. 2	H225; Highly flammable liquid and vapor.
Eye Irrit. 2	H319; Causes serious eye irritation.
STOT SE 3	H336; May cause drowsiness and dizziness.

### 2.2. Label elements



### 2.3. Other hazards

None.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Product/ingredient name	EC	CAS #	%	GHS Classification
Methyl ethyl ketone	201-159-0	78-93-3	90 - 100	Flam. Liq. 2 (H225), Eye Irrit. 2 (H319), STOT SE 3 (H336)

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. If symptoms persist, call a physician.

Inhalation: Move to fresh air. If symptoms persist, call a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapours.

Skin contact: Wash off immediately with plenty of water. Immediate medical attention is not required. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Immediately flush with plenty of water. Keep eye wide open while rinsing.

Ingestion: Immediate medical attention is not required. Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

Protection of first-aiders: Remove all sources of ignition. Use personal protective equipment.

### 4.2. Most important symptoms and effects, both acute and delayed

No information available

### 4.3. Indication of any immediate medical attention and special treatment needed

Keep victim warm and quiet. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam. Water spray, fog or alcohol-resistant foam. dry chemical. Carbon dioxide (CO<sub>2</sub>). water spray. alcohol-resistant foam.

### 5.2. Special hazards arising from the substance or mixture

Vapors may form explosive mixtures with air Vapors may travel to source of ignition and flash back Most vapours are heavier than air Vapor explosion hazard indoors, outdoors or in sewers Those substances designated with a „P“ may polymerize explosively when heated or involved in a fire Runoff to sewer may create fire or explosion hazard extremely flammable Keep product and empty container away from heat and sources of ignition Risk of ignition

### 5.3. Advice for firefighters

Move containers from fire area if you can do it without risk.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

Water spray may reduce vapor; but may not prevent ignition in closed spaces.

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitation



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ry sewer system. Beware of vapours accumulating to form explosive concentrations.

### 6.3. Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers. Soak up with inert absorbent material. Take precautionary measures against static discharges.

### 6.4. Reference to other sections

Not available.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry and cool place. Keep in properly labelled containers. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat and sources of ignition. Keep away from heat. Protect from light.

### 7.3. Specific end use(s)

Data not available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Product/ingredient name	Exposure limit values
Methyl ethyl ketone	TWA 200 ppm TWA 600 mg/m <sup>3</sup> STEL 300 ppm STEL 900 mg/m <sup>3</sup>

### 8.2. Exposure controls

Engineering measures: Ensure adequate ventilation. Use explosion-proof equipment.

#### Personal protective equipment

Eye/face protection: tightly fitting safety goggles. face-shield.

Hand protection: Wear protective gloves. impervious butyl rubber gloves.

Skin and body protection: antistatic boots. Wear fire/flame resistant/retardant clothing. impervious gloves. long sleeved clothing.

Chemical resistant apron. apron.

Respiratory protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Environmental exposure controls: Do not allow material to contaminate ground water system.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state: Liquid

Color: colourless

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Odor: Solvent  
Odor threshold: No information available  
pH: No information available  
Melting point/freezing point: <-85°C / <-121°F  
Boiling point and boiling range: >75°C / >167°F  
Flash point: >-9°C / >16°F  
Flammability Limits in Air - lower flammability limit: 1,8  
Flammability Limits in Air - upper flammability limit: 11,5  
Auto-ignition temperature: >500°C / >932°F  
Decomposition temperature: No information available  
Viscosity: Not available.

## 9.2. Other information

Vapour pressure 13.3 kPa (25 °C)  
Relative vapour density >1  
Density 0.805 (20 °C)  
Water solubility partly soluble  
Partition coefficient: n-octanol/water log P(o/w) = 0.26

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

no data available

### 10.2. Chemical stability

The product is stable

### 10.3. Possibility of hazardous reactions

None

### 10.4. Conditions to avoid

Heat, flames and sparks.

### 10.5. Incompatible materials

Incompatible with oxidizing agents. Incompatible with strong acids and bases.

### 10.6. Hazardous decomposition products

None

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methyl ethyl ketone	2737 mg/kg ( Rat )	= 6480 mg/kg ( Rabbit ) = 5000 mg/kg ( Rabbit )	= 11700 ppm ( Rat ) 4 h

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## SECTION 12: Ecological information

### 12.1. Toxicity

Chemical Name	CAS-No	Daphnia Magna (Water Flea)	Toxicity to fish
Methyl ethyl ketone	78-93-3	520: 48 h Daphnia magna mg/L EC50 4025 - 6440: 48 h Daphnia magna mg/L EC50 Static 5091: 48 h Daphnia magna mg/L EC50	3130 - 3320: 96 h Pimephales promelas mg/L LC50 flowthrough

### 12.2. Persistence and degradability

Not available.

### 12.3. Bioaccumulative potential

Some ingredients of this material have some potential to biodegrade, but most ingredients have a limited potential to biodegrade or have not been tested.

### 12.4. Mobility in soil

Not available.

### 12.5. Results of PBT and vPvB assessment

Not available.

### 12.6. Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of in accordance with local regulations

## SECTION 14: Transport information

### 14.1. UN number

UN1193

### 14.2. UN proper shipping name

Printing Ink Related Material

### 14.3. Transport hazard class(es)



### 14.4. Packing group

II

### 14.5. Environmental hazards

No.

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## 14.6. Special precautions for user

No special measures required.

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not available.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

In accordance with Regulation (EC) No. 1272/2008

### 15.2. Chemical safety assessment

Not available.

## SECTION 16: Other information

Notice to reader: To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

