

Material safety data sheet

Processed according to regulation (ES) No 1272/2008

Date of issue: 01.2007

Date of revision: 30.05.2015

Version number: 1.2015

1. Identification of the substance/preparation and of the company

1.1 Product identification

INK ZFAST BLACK

Registration number: 50CHIEHZFAST/ZFAST

1.2 Produkt uses

Printing ink for industrial use

1.3 Company identification

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 nebo www.agfoil.cz
Information for the safety data sheet: Vladimír Holomek: 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

2. Hazard identification

2.1 Classification of the substance or mixture

Flam. Liq. 2	H225,
Eye Irrit. 2	H319,
STOT SE 3	H336,
	EUH066

2.2 Label elements

Hazard pictograms:



Signal words: Danger

2.3 Other hazards

Any additional information relating to the possible risks to health and the environment are given in sections 11 and 12.

3. Composition/information on ingredients

DIACETONALKOHOL 50 - 80%
CAS. 123-42-2
CE. 204-626-7
INDEX. 603-016-00-1
Eye Irrit. 2 H319

1/7



Vstupte do světa označování

AG-FOIL BOHEMIA s.r.o.
Bratislavská 3082, 690 02 Břeclav, CZ
Tel.: +420 519 323 815
Fax: +420 519 323 621

Volejte ZDARMA: 800 233 332
email: office@agfoil.com
www.agfoil.cz

1-METOXY-2-PROPANAL 25 - 40%
CAS. 107-98-2
CE. 203-539-1
INDEX. 603-064-00-3
Flam. Liq. 3 H226, STOT SE 3 H336

4. First aid measures

4.1. Description of first aid measures

EYES: Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.

SKIN: Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.

INHALATION: Remove to open air. If breathing is irregular, seek medical advice.

INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

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

For symptoms and effects caused by the contained substances see chap. 11.

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

Follow doctor's orders.

5. Fire-fighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA

The extinction equipment should contain carbon dioxide, foam or chemical powders. For product leaks and spills that have not caught fire, nebulised water can be used to dispel flammable fumes and protect the individuals taking part in stemming the leak. EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

5.3. Advice for firefighters

GENERAL INFORMATION: Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist) work gloves (fireproof, cut proof and dielectric), self-respirator (self-protector).

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Eliminate sources of ignition (cigarettes, flames, sparks, etc.) from the air in which the leak occurred. If there are no contraindications, spray solid products with water to prevent the formation of dust. Use breathing equipment if fumes or powders are released into the air. Block the leakage if there is no hazard. Do not handle damaged containers or leaked product before donning appropriate protective gear. Send away individuals who are not suitably equipped. For information on risks for the environmental and health, respiratory tract protection, ventilation and personal protection equipment, refer to the other sections of this sheet. These indications apply for both processing staff and those involved in emergency procedures.

2/7



Vstupte do světa označování

AG-FOIL BOHEMIA s.r.o.

Bratislavská 3082, 690 02 Břeclav, CZ

Tel.: +420 519 323 815

Fax: +420 519 323 621

Volejte ZDARMA: 800 233 332

email: office@agfoil.com

www.agfoil.cz

6.2. Environmental precautions

The product must not penetrate the sewers, surface water, ground water and neighbouring areas.

6.3. Methods and material for containment and cleaning up

For liquid products, suck into a suitable container (made of material not incompatible with the product) and soak up any leaked product with absorbent inert material (sand, vermiculite, diatomaceous earth, Kieselguhr, etc). Collect the majority of the remaining material and deposit in containers for disposal. For solid products, use spark proof mechanical tools to collect the leaked product and place in plastic containers. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

Do not smoke while handling and use.

7.2. Conditions for safe storage, including any incompatibilities

Store in a well ventilated place, keep far away from sources of heat, bright flames and sparks and other sources of ignition.

7.3. Specific end use(s)

Information not available.

8. Exposure controls/Personal protection

8.1. Control parameters

Name	Type	Country	TWA/8h		STEL/15min		
			mg/m ³	ppm	mg/m ³	ppm	
DIACETONALKOHOL	TLV-ACGIH	CZ	238		50		Skin
	TLV		200		300		Skin
1-METOXY-2-PROPANAL	TLV-ACGIH	CZ	369	100	553	150	Skin
	TLV		270		550		Skin
	OEL	EU	375	100	568	150	Skin
	NPHV	SK	375	100	568		Skin

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration or bad air vent.

HAND PROTECTION

Protect hands with category I (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in latex, PVC or equivalent. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves' limit depends on the duration of exposure.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN 344). Wash body with soap and water after removing overalls.

RESPIRATORY PROTECTION

If the threshold value (if available) for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear a mask with an A or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use (ref. standard EN 141). The use of respiratory tract protection equipment, such as masks like that indicated above, is necessary to reduce worker exposure in the absence of technical measures. The protection provided by masks is in any case limited. If the substance in question is odourless

3/7



Vstupte do světa označování

AG-FOIL BOHEMIA s.r.o.

Bratislavská 3082, 690 02 Břeclav, CZ

Tel.: +420 519 323 815

Fax: +420 519 323 621

Volejte ZDARMA: 800 233 332

email: office@agfoil.com

www.agfoil.cz

or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. standard EN 138).

EYE PROTECTION

Use of protective airtight goggles (ref. standard EN 166) recommended.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance liquid

Colour black

Odour characteristic

Odour threshold. Not available.

pH. 9

Melting or freezing point. Not available.

Initial boiling point. Not available.

Boiling range. 114-118 °C

Flash point. 44 °C.

Evaporation Rate Not available.

Flammability of solids and gases NA

Lower inflammability limit. 1,3 % (O/O).

Upper inflammability limit. 13 % (O/O).

Lower explosive limit. 1,3 % (O/O).

Upper explosive limit. 13 % (O/O).

Vapour pressure. 11 mmHg

Vapour density >1

Specific gravity. 1,0-1,1 Kg/l

Solubility partially miscible

Partition coefficient: n-octanol/water Not available.

Ignition temperature. Not available.

Decomposition temperature. Not available.

Viscosity 15-25 cP 25°C

Reactive Properties Not available.

9.2. Other information.

VOC (Directive 1999/13/EC) : 80,00 %

VOC (volatile carbon) : 46,97 %

10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

10.4. Conditions to avoid

Avoid overheating, electrostatic discharge and all sources of ignition.

10.5. Incompatible materials

Information not available.

4/7



Vstupte do světa označování

AG-FOIL BOHEMIA s.r.o.

Bratislavská 3082, 690 02 Břeclav, CZ

Tel.: +420 519 323 815

Fax: +420 519 323 621

Volejte ZDARMA: 800 233 332

email: office@agfoil.com

www.agfoil.cz

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, vapours potentially dangerous to health may be released.

11. Toxicological information

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled carefully according to good industrial practices. This product may have slight health effects on sensitive people, by inhalation and/or cutaneous absorption and/or contact with eyes and/or ingestion.

11.1. Information on toxicological effects

DIACETONALKOHOL

LD50 (Oral): 4000 mg/kg Rat

1-METOXY-2-PROPANAL

LD50 (Oral): 5300 mg/kg Rat

LD50 (Dermal): 13000 mg/kg Rabbit

LC50 (Inhalation): 54,6 mg/l/4h Rat

12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.1. Toxicity

Information not available.

12.2. Persistence and degradability

Information not available.

12.3. Bioaccumulative potential

Information not available.

12.4. Mobility in soil

Information not available.

12.5. Results of PBT and vPvB assessment

Information not available.

12.6. Other adverse effects

Information not available.

13. Disposal considerations

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport Information

14.1 UN number

ADR / RID, IMDG, IATA: 1210

5/7



Vstupte do světa označování

AG-FOIL BOHEMIA s.r.o.

Bratislavská 3082, 690 02 Břeclav, CZ

Tel.: +420 519 323 815

Fax: +420 519 323 621

Volejte ZDARMA: 800 233 332

email: office@agfoil.com

www.agfoil.cz

14.2 UN proper shipping name

ADR / RID: PRINTING INK or PRINTING INK RELATED MATERIAL

IMDG: PRINTING INK or PRINTING INK RELATED MATERIAL

IATA: PRINTING INK or PRINTING INK RELATED MATERIAL

14.3 Transport hazard class

ADR / RID: Třída: 3

Bezpečnostní značka: 3

IMDG: Třída: 3

Bezpečnostní značka: 3

IATA: Třída: 3

Bezpečnostní značka: 3



14.4 Packaging group

ADR / RID, IMDG, IATA: II

14.5 Environmental hazards

ADR / RID: NO

IMDG: NO

IATA: NO

14.6 Special precautions for user

ADR / RID:

HIN - Kemler: 33

Limited Quantities 5L

Tunnel restriction code (D/E)

Special Provision 640 D

IMDG:

EMS: F-E, S-D

Limited Quantities 5L

IATA:

Cargo:

Maximum quantity 60L

Packaging instructions: 364

Pass:

Maximum quantity 5L

Packaging instructions: 353

Special instructions:

A3, A72, A192

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

Information not relevant

15. Regulatory information

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

Seveso category. 7b

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product.

Point. 3 - 40

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

16. Other information

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

6/7



AG-FOIL BOHEMIA s.r.o.

Bratislavská 3082, 690 02 Břeclav, CZ

Tel.: +420 519 323 815

Fax: +420 519 323 621

Volejte ZDARMA: 800 233 332

email: office@agfoil.com

www.agfoil.cz

Vstupte do světa označování

H315 Causes skin irritation.
H302 Harmful if swallowed.

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
6. Regulation (EC) 453/2010 of the European Parliament
7. The Merck Index. - 10th Edition
8. Handling Chemical Safety
9. Niosh - Registry of Toxic Effects of Chemical Substances
10. INRS - Fiche Toxicologique (toxicological sheet)
11. Patty - Industrial Hygiene and Toxicology
12. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
13. ECHA website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

