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Safety data sheet

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: FNL00071106AA
Product name INK MICRO BLACK 1124

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

Intended use FINELINER INKS

Identified Uses Industrial Professional Consumer
Inks

Uses Advised Against

Do not use for purposes other than those specified

1.3. Details of the supplier of the safety data sheet

Name HAINENKO LIMITED

Full address 284 Chase Road, Southgate, N14 6HF

District and Country London

Tel. 020 8882 8734 Fax 020 8882 7749

e-mail address of the competent person

responsible for the Safety Data Sheet d.ashpole@hainenko.com

1.4. Emergency telephone number

For urgent inquiries refer to 020 8882 8734

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to EC Regulation 1907/2006 and subsequent amendments. Hazard classification and indication:

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements:

EUH210 Safety data sheet available on request.

Precautionary statements:

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2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification 1272/2008 (CLP).
ETHANEDIOL		(OLI).
CAS. 107-21-1	1 - 10	Acute Tox. 4 H302, STOT RE 2 H373
EC. 203-473-3		
INDEX. 603-027-00-1		
Reg. no. 01-2119456816-28-xxxx		
2,2'-(METHYLIMINO)DIETHANOL		
CAS. 105-59-9	1 - 10	Eye Irrit. 2 H319
EC. 203-312-7		
INDEX. 603-079-00-5		

Note: Upper limit is not included into the range.

Reg. no. 01-2119488970-24-xxxx

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

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

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

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

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 used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

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6.4. Reference to other sections.

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

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г
CZE	Česká Republika	Nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
ITA	Italia [–]	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2014

ETHANEDIOL Threshold Limit Value.					
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm

	FI	NL0007110	6AA - INK	MICRO E	BLACK 11	124	rised on 23/03/2018 ge n. 5/11	
TLV	BGR	52		104		SKIN.		
TLV	CZE	50		100		SKIN.		
AGW	DEU	26	10	52	20	SKIN.		
MAK	DEU	26	10	52	20	SKIN.		
VLA	ESP	52	20	104	40	SKIN.		
VLEP	FRA	52	20	104	40	SKIN.		
WEL	GBR	52	20	104	40			
ΓLV	ITA	52	20	104	40	SKIN.		
DEL	NLD	52		104		SKIN.		
DEL	EU	52	20	104	40	SKIN.		
LV-ACGIH				100 (C)				
Predicted no-effect concentration	n - PNEC.							
Normal value in fresh water Normal value in marine water Normal value for fresh water sed Normal value for marine water se Normal value for water, intermitt Normal value of STP microorgar Normal value for the terrestrial o Normal value for the atmosphere	ediment ent release nisms ompartment			10 1 37 3,7 10 199,5 1,53 NPI		mg/ mg/ mg/ mg/ mg/	'I 'kg 'kg I I	
Health - Derived no-effect	Effects on	MEL			Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
nhalation.			7 mg/m3	VND			35 mg/m3	VND
Skin.			VND	53 mg/kg bw/d			VND	106 mg/kg bw/d
2,2'-(METHYLIMINO)DIETH Predicted no-effect concentration								
Normal value in fresh water Normal value in marine water Normal value for fresh water sec Normal value for marine water se Normal value for water, intermitt Normal value of STP microorgar Normal value for the terrestrial o	ediment ent release nisms ompartment	MEI		0,1 0,004 0,78 0,035 1 10 0,097		mg/ mg/ mg/ mg/ mg/ mg/	'l 'kg 'kg I I	
Health - Derived no-effect	Effects on	WEL			Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	1,9 mg/kg		O y O COTTILO		3,0.011110
nhalation.			VND	bw/d 6,5 mg/m3			VND	26 mg/m3
Skin.			VND	9,4 mg/kg bw/d			VND	19 mg/kg bw/d
jend:								

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

Comply with the safety measures usually applied when handling chemical substances.

8.2. Exposure controls.

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HAND PROTECTION

None required.

SKIN PROTECTION

None required.

EYE PROTECTION

None required.

RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance liquid Colour black imperceptible Odour Odour threshold. Not available. pH. 8.00 +/- 0.50 Not available. Melting point / freezing point. Initial boiling point. > 100 °C. Boiling range. Not available. > 100 °C. Flash point. Evaporation Rate Not available. Flammability of solids and gases not flammable Lower inflammability limit. Not available. Upper inflammability limit. Not available. Lower explosive limit. Not available. Upper explosive limit. Not available. Vapour pressure. Not available. Vapour density Not available. Relative density. 1,050 +/- 0,050 Solubility water-miscible Not available. Partition coefficient: n-octanol/water Auto-ignition temperature. Not available. Decomposition temperature. Not available. Viscosity Not available. not explosive Explosive properties Oxidising properties Not available.

9.2. Other information.

VOC (Directive 2010/75/EC): 6,95 % - 72,97 g/litre.

VOC (volatile carbon): Not available.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

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

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10.2. Chemical stability.

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

10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products.

Information not available.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

ETHANEDIOL LD50 (Oral).> 2000 mg/kg Rat LD50 (Dermal).> 5000 mg/kg Rabbit

2,2'-(METHYLIMINO)DIETHANOL LD50 (Oral).1945 mg/kg Rat (Sprague-Dawley) - OECD Guideline 401 LD50 (Dermal).5990 mg/kg Rabbit

SECTION 12. Ecological information.

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

12.1. Toxicity.

ETHANEDIOL

EC50 - for Crustacea.

> 100 mg/l/48h Daphnia magna - OECD Guideline 202

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2.2'-

(METHYLIMINO) DIETHANO

LC50 - for Fish.

1170 mg/l/96h OECD Guideline 203

EC50 - for Crustacea. EC50 - for Algae / Aquatic 230 mg/l/48h Daphnia magna - OECD Guideline 202

141 mg/l/72h Skeletonema costatum - ISO 10253

Plants.

12.2. Persistence and degradability.

ETHANEDIOL

Rapidly biodegradable.

Biodegradability > 94% (28 days) - OECD 301 F

2,2'-

(METHYLIMINO)DIETHANO

Rapidly biodegradable.

12.3. Bioaccumulative potential.

Information not available.

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

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.

SECTION 14. Transport information.

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14.1. UN number.		
Not applicable.		
14.2. UN proper shipping name.		
Not applicable.		
14.3. Transport hazard class(es).		
Not applicable.		
14.4. Packing group.		
Not applicable.		
14.5. Environmental hazards.		
Not applicable.		
14.6. Special precautions for user.		
Not applicable.		
14.7. Transport in bulk according to <i>i</i>	Annex II of MARPOL73/78 and the IBC Code.	
Information not relevant.		
SECTION 15. Regulatory	information.	
15.1. Safety, health and environme	ental regulations/legislation specific for the substance or mixture.	
Seveso category.	None.	
Restrictions relating to the product or co	ontained substances pursuant to Annex XVII to EC Regulation 1907/2006.	
None.		

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Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisarion (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Information not available.

15.2. Chemical safety assessment.

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

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 4 Acute toxicity, category 4

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Eye Irrit. 2 Eye irritation, category 2
H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation.

EUH210 Safety data sheet available on request.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization

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- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament

- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament R. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament P. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- The Merck Index. 10th Edition
 Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- 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.

Provide appointed staff with adequate training on how to use chemical products.