

MATERIAL SAFETY DATA SHEET
Directive CEE 1907/2006

1. PRODUCT AND COMPANY IDENTIFICATION

Name of the product: **INKJET HEAD CLEANING SOLUTION - Ref: 5096**

Product application : JET series

Producer / Supplier Identification:

MGI Digital Graphic Technology
161 avenue de Verdun
94204 IVRY/SEINE CEDEX France
Tél. : (33) 1 45 21 06 60 – Fax : (33) 1 45 21 14 90
E-mail : p.allais@mgi-fr.com
info@mgi-fr.com - www.mgi-fr.com

Emergency telephones

Numéro ORFILA : 01.45.42.59.59 (organisme consultatif officiel)

2. HAZARDS IDENTIFICATION

Hazard effects: None, if used in accordance with recommendations. Avoid contact with skin. Direct splashes to the eye may cause irritation.

Environmental impact: None, if used in accordance with recommendations.

Physico-chemical hazards: Combustible liquid.

In use may form flammable/explosive vapour-air mixture. Vapours heavier than air may spread along the ground and may ignite at a distance. Flashpoint 75°C.

Product classification: None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical nature of product: Organic solvent based on 3-(3-Methoxy)propoxy-1-propanol .

CAS-No. EINECS:	Substances presenting a health hazard	Content %	Symbol	R-phrases
34590-94-8 / 252-104-2	3-(3-Methoxy)propoxy-1-propanol	80-100	--	--

4. FIRST AID MEASURES

Inhalation: Using proper respiratory protection, immediately remove victim from exposure. Administer artificial respiration if breathing ceases. Call for prompt medical attention.

Skin contact: Wipe affected areas with dry cloth, flush with water. Use soap if available. Irritating to skin.

Eye contact: Rinse opened eye for about 15 min. under running water. Then consult a doctor.

Ingestion: If swallowed DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Foam, powder, CO2.

Inappropriate measures of extinction: Water jet.

Specific fire-fighting methods: Cool down any tanks and surfaces exposed to fire by spraying abundantly with water.

Specific hazards: Vapours are heavier than air and may spread on the ground to sources of ignition.

Vapours can build explosive mixtures with air.

Protective measures for firefighters: Insulated breathing apparatus must be worn in confined premises with heavy concentrations of fumes and gases. Use non-sparking handtools.

6. ACCIDENTAL RELEASE MEASURES

Precautions to protect people present: Remove all sources of ignition. Inform people present about danger of explosion. Shut off source if possible to do without hazard.

Precautions to protect environment: Do not pour down drains or into waste water outlets. In case of accidental spillage warn authorities in charge.

Cleaning / recovery: Absorb product with absorbing agents e.g. dry soil, sand or an absorbent. Recycle or dispose. Recover by pumping (use an explosion proof or hand pump).

7. HANDLING AND STORAGE

HANDLING

General safety recommendations: Store in tightly sealed containers in a well-ventilated room. Avoid eyes and skin contact. Do not smoke. Handle away from any source of ignition. Use explosion-proof material. Vapours heavier than air may spread along the ground and may ignite at a distance.

Recommendations in case of fire / explosion: Keep away from ignition sources. Take appropriate measures against electrostatic charging. Avoid electrical sparks. Protect material from direct sunlight.

STORAGE

Requirements for warehouses and containers: Cool, well-ventilated storage-room in an authorized area.

Storage with other products: Do not store with oxidising agents.

Further recommendations on storage conditions: Container remains hazardous when empty.

Continue to observe all precautions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information concerning layout of technical installations: Use this product in a well-ventilated atmosphere with explosion-proof equipment.

Limit values of components - work station related - to be checked:

CAS-No.	Description	%	TWA	Unit	Notes
34590-94-8	3-(3-Methoxy)propoxy-1-propanol	80-100	50 ppm 308 mg/m ³	UK EH40	SK
			50 ppm 308 mg/m ³	98/24/EC	SK

General measures: If the concentration in the ambient air exceeds the values given above, technical safety measures (e.g. an exhaust) should be installed.



Respiratory protection: If there is an inhalation risk, an activated carbon face mask should be worn (use filter A).

Hand protection: Chemical-resistant rubber gloves f.e. Rubber or PVC – EN 374-3.

Eye protection: Tight-fitting goggles.

Body protection: Appropriate protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid

Colour: colourless

Odour: specific (like ether)

	Value / Range	Unit	Method
Modifications of state			
- Melting point / range:	appr. - 80	°C	
- Boiling point / range:	180	°C	
- Flash point:	75	°C	Pensky-Martens DIN 51758
- Spontaneous combustion:	270	°C	

Explosion risk:

lower limit of explosibility: 1,4 vol% (computed)

upper limit of explosibility: 10,4 vol%

Vapour pressure at 20°C: 0,7 mbar

Density at 20°C: 0,951 g/cm³

Viscosity at 20°C: ~ 4 mPa.s

Solubility in Water at 20°C: miscible

Further data: not self-inflammable

10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to avoid: Avoid open flames and any other source of ignition.

The product is stable at normal storage, handling and use temperatures.

Dangerous reactions: With powerful oxidising agents and strong acids

Dangerous decomposition products: None, if used in accordance with recommendations.

11. TOXICOLOGICAL INFORMATION

Component 3-(3-Methoxy)propoxy-1-propanol

Oral LD50 5135 mg/kg (rat)

Dermal LD50 9500 mg/kg (rat)

There is no specific data on the preparation but the product is formulated to avoid toxic, carcinogenic or mutagenic materials.

Primer irritation

of the skin: Low order of toxicity. Frequent or prolonged contact may defeat and dry skin which may lead to dermatitis.

of the eyes: Will cause eye discomfort, but will not injure eye tissue.

after inhalation: Vapour concentrations above recommended level may be irritating to the eyes and the respiratory tract; may cause headaches and dizziness; may affect CNS.

after ingestion: Small amounts of liquid aspirated into the respiratory tract during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Mobility: The product evaporates into the atmosphere.

Bioaccumulation: Certain ingredients are dangerous for the aquatic environment.

BOD : 77% - 84 % ThOD (28d)

CL50 (pimephales promelas, 96 h): > 10000 mg/l.

EC50 (daphnia, 48h) : > 5000 mg/l.

Do not put into public waste or sewage system.

13. DISPOSAL CONSIDERATIONS

Disposal: Recover or recycle waste/product, if possible, otherwise incinerate.

Local Legislation: Control of pollution act 1974

Environment protection act 1990

Special waste regulations 1996

Residual substance code: 140603

14. TRANSPORT INFORMATION

Land transport ADR / RID and GGVS / GGVE (national and international)

classification: Not classified as dangerous goods for transport regulations

Sea transport IMDG / GGVsea

classification: Not classified as dangerous goods for transport regulations

Air transport ICAO-TI and IATA-DGR

classification: Not classified as dangerous goods for transport regulations

15. REGULATORY INFORMATION

Classification according to Dangerous Product Regulations incl. EC Directives (1999/45/EC).

EC Symbol-letter: ---

Symbol: ---

EC Classification: ---

Contains: 3-(3-Methoxy)propoxy-1-propanol ; CAS-N°.: 34590-94-8; EINECS : 252-104-2 : 80-100%.

R-phrases:

Safety advice:

VOC: 100 % by 20°C

16. FURTHER INFORMATION

This information is to the best of our knowledge and believed accurate and reliable as of the date indicated. It applies to the product as delivered. Its purpose is to describe the product with regard to safety and is not to be considered a warranty for any particular properties.

R-phrases listed under point 2 and 3:
