

Printing Date: 13.04.2012

Safety data sheet according to 1907/2006/EC, Article 31 Version number 1

Revision: 13.04.2012

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

- · Product identifier
- · Trade name: Ink, GS-3 White & One Shot Cartridges
- · Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the preparation Printing inks
- Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Diagraph MSP, an ITW Company Marking & Stenciling Products Division 5307 Meadowland Parkway Marion, IL 62959

Customer Sales & Service: 800-521-3047 618-997-3321 618-997-1766 Fax

 Further information obtainable from: msds@diagraphmsp.com
 Emergency telephone number: Contact Infotrac: (800) 535 5053 (US only) International: +1 352 323 3500

2 Hazards identification

· Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 👏 GHS02 flame *Flam. Liq. 3 H226 Flammable liquid and vapour.* GHS08 health hazard Carc. 1B H350 May cause cancer. GHS07 Acute Tox. 4 H332 Harmful if inhaled. Eye Irrit. 2 H319 Causes serious eye irritation. Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xi; Irritant *R36: Irritating to eyes. R10*: Flammable. · Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. · Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data. · Label elements • Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials · Code letter and hazard designation of product: Xi Irritant (Contd. on page 2) GB

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• **Risk phrases:** 10 Flammable.

36 Irritating to eyes.

• Safety phrases:

- 2 Keep out of the reach of children.
- 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
- 24/25 Avoid contact with skin and eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 46 If swallowed, seek medical advice immediately and show this container or label.

• Other hazards

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

· Dangerous components:		
CAS: 123-42-2		20-40%
EINECS: 204-626-7	🗙 Xi R36	
	Eye Irrit. 2, H319	
CAS: 107-98-2	1-methoxy-2-propanol	5-20%
EINECS: 203-539-1		
	🚸 Flam. Liq. 3, H226	
auto		

· SVHC

This ink contains no SVHC's listed in Annex XV at the time of the revision of the MSDS listed in Section 16.

• Additional information For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- · Description of first aid measures
- After inhalation Supply fresh air; consult doctor in case of complaints.
- After skin contact Generally the product does not irritate the skin.

• After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. • After swallowing

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

- · Information for doctor
- *Most important symptoms and effects, both acute and delayed* No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 *Firefighting measures*

· Extinguishing media

• Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water.

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- For safety reasons unsuitable extinguishing agents Water.
- Water with full jet.
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow product to reach sewage system or any water course.
- *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents
- **Reference to other sections** See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

- · Handling
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Maximum storage temperature: 120 F (49 C)
- Minimum storage temperature 35 F (2 C)
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· Control parameters

• Ingredients with limit values that require monitoring at the workplace:

123-42-2 4-hydroxy-4-methylpentan-2-one

WEL Short-term value: 362 mg/m³, 75 ppm

Long-term value: 241 mg/m³, 50 ppm

107-98-2 1-methoxy-2-propanol

WEL Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm Sk

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· Flash point:

· Self-igniting:

· Ignition temperature:

· Danger of explosion:

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· Exposure controls	
· Personal protective equipmen	t
· General protective and hygier	nic measures
Keep away from foodstuffs, be	
Immediately remove all soiled	
Wash hands before breaks and	
Avoid contact with the eyes an	
· Respiratory protection:	
	ow pollution use respiratory filter device. In case of intensive or longer
exposure use self-contained re	spiratory protective device.
• Protection of hands:	
Protective gloves.	
The glove material has to be in	npermeable and resistant to the product/ the substance/ the preparation.
	al on consideration of the penetration times, rates of diffusion and the
degradation	w on consideration of the penetration times, rates of allfusion and the
· Material of gloves	
Butyl rubber, BR	
Nitrile rubber, NBR	
Natural rubber, NR	
Neoprene gloves	
	loves does not only depend on the material, but also on further marks of
quality and varies from man	ufacturer to manufacturer. As the product is a preparation of several
substances, the resistance of t	he glove material can not be calculated in advance and has therefore to
be checked prior to the application	ation.
• Penetration time of glove mat	
	has to be found out by the manufacturer of the protective gloves and has
to be observed.	
	of the following materials: Leather gloves
• Eye protection:	
Tightly sealed goggles	
9 Physical and chemica	l properties
Information on basic physical	ana cnemicai properties
• General Information • Appearance:	
· Appearance: Form:	Liquid
Form: Colour:	White
· Odour:	Characteristic
• Change in condition	
Melting point/Melting range	e: undetermined
Boiling point/Boiling range	: 120°C

37°C

 $270^{\circ}C$

Product is not selfigniting.

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

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· Explosion limits: Lower:	1.4 Vol %	
Upper:	8.1 Vol %	
• Vapour pressure at 20°C:	12 hPa	
• Density at 20•C:	1.3702 g/cm ³	
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix	
· Solvent content: Organic solvents: Water:	44.7 % 0.5 %	
Solids content: • Other information	52.0 % No further relevant information available.	

10 Stability and reactivity

· Reactivity

- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. Irritant

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Additional ecological information:
- · General notes:

Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water. Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

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Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Comply with all Federal, State, and Local regulations reguarding disposal.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

UN-Number ADR, IMDG, IATA	1210	
UN proper shipping name ADR IMDG, IATA	1210 PRINTING INK (not viscous) PRINTING INK	
Transport hazard class(es)		
ADR		
Class Label	3 Flammable liquids. 3	
IMDG, IATA		
Class Label	3 Flammable liquids. 3	
Packing group ADR, IMDG, IATA	III	
Environmental hazards: Marine pollutant:	No	
Special precautions for user Danger code (Kemler): EMS Number:	Warning: Flammable liquids. 30 F-E,S-D	
Transport in bulk according to Annex A MARPOL73/78 and the IBC Code	II of Not applicable.	
Transport/Additional information:		
ADR Tunnel restriction code	D/E	

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· IATA · Remarks:	All UN 1210 Printing Inks of Packing Group II or III can be shipped by ground transportation Limited Quantity if quantity is 1 gallon or less per 49 CFR 172.101 table and 172. 102 special provision number 149.
· UN "Model Regulation":	UN1210, PRINTING INK, 3, III

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations
- · Technical instructions (air):

Class	Share in %
Water	0.5
NK	44.7

· Waterhazard class: Water danger class 3 (Self-assessment): extremely hazardous for water.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H226 Flammable liquid and vapour. H319 Causes serious eye irritation.

R10 Flammable.

R36 Irritating to eyes.

- · MSDS Created By: Jacqueline Cullum
- File: 112
- Revision Information (All previous revisions obsolete):
- 02/01/2012 New SDS format, SVHC, Transport
- 07/15/09 Updated Prop 65
- 4/28/2009 Updated Flashpoint

04/02/2009: Changed hazard ratings. All suppliers of mineral spirits confirms there is less than 0.1% benzene in their product.

2/16/2009 New SDS. All previous revisions obsolete.

2/10/2009 New SDS. All previous revisions obsolete.
 Abbreviations and acronyms:
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 ICAO: International Civil Aviation Organization
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals