

Printing Date: 19.10.2012 Version number 1 Revision: 19.10.2012

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

· Product identifier

• Trade name: INK, Multipurpose and One Shot (All Colors)

· 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.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Irritating to eyes.

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 Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms GHS02, GHS07

· Signal word Warning

· Hazard statements

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

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P241 *Use explosion-proof electrical/ventilating/lighting/equipment.* 

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Wear protective gloves/protective clothing/eye protection/face protection. P280

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· Other hazards

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· 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:

CAS: 123-42-2 4-hydroxy-4-methylpentan-2-one 40-60%

*EINECS: 204-626-7* **■** *Xi R36* 

Eve Irrit. 2, H319 · 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 ľabel.

- · 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, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- 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 Not required.
- Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). *Ensure adequate ventilation.* 

· 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.

No special precautions are necessary if used correctly.

- · Information about fire and explosion protection: No special measures required.
- · 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/m<sup>3</sup>, 75 ppm Long-term value: 241 mg/m<sup>3</sup>, 50 ppm

- · Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to

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be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has

· Eye protection:



Tightly sealed goggles.

# 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid

Colour: According to product specification

· Odour: Characteristic

· Change in condition

Melting point/Melting range: undetermined

Boiling point/Boiling range: 150°C · Flash point: 56°C

620°C · Ignition temperature:

Self-igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

1.4 Vol % Lower: 8.1 Vol % Upper:

1.1 hPa · Vapour pressure at 20°C:

· Density at 20°C: 1.2139 g/cm3

· Solubility in / Miscibility with Water: Not miscible or difficult to mix

· Solvent content:

Organic solvents: 44.3 % Water: 0.1 % Solids content: 55.6 %

· Other information 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.

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· 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.

- · 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.

14 Transport information		
· UN-Number · ADR, IMDG, IATA	1210	
<ul><li>UN proper shipping name</li><li>ADR</li><li>IMDG, IATA</li></ul>	1210 PRINTING INK (not viscous) PRINTING INK	

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(Contd. of page 5) · Transport hazard class(es)  $\cdot ADR$ · Class *3 Flammable liquids.* · Label · IMDG, IATA · Class 3 Flammable liquids. · Label · Packing group · ADR, IMDG, IATA III · Environmental hazards: · Marine pollutant: No · Special precautions for user Warning: Flammable liquids. · Danger code (Kemler): · EMŠ Number: F-E,S-D· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code *Not applicable.* · Transport/Additional information: · Tunnel restriction code D/E· 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 %
Wasser	0.1
NK	44.8

- · 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

H319 Causes serious eye irritation.

R36 Irritating to eyes.

· MSDS Created By: Jacqueline Cullum

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· File: 430

· Revision Information (All previous revisions obsolete):

02-17-2012 New Shipping Format, SVHC addded

01-08-2010 Updated to combine all colors of ink. Reformulation of all colors is complete. All sections have been updated.

09-23-09 Updated due to reformulation of ink. All Sections.

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

This Revision: 1/15/2009 New Safety Data Sheet 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

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