

Printing Date: 13.04.2012 Version number 1 Revision: 13.04.2012

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

- · Product identifier
- Trade name: Marker, GPX Classic/2018-P/563/Grizzly/Rhino (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.



GHS08 health hazard

H350 May cause cancer.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

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

Xn; Harmful

R20/21: Harmful by inhalation and in contact with skin.

Xi; Irritant

R38: Irritating to skin.

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

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· Code letter and hazard designation of product:

Xn Harmful

· Hazard-determining components of labelling:

xylene (mix)

· Risk phrases:

Flammable.

20/21 Harmful by inhalation and in contact with skin.

Irritating to skin.

· Safety phrases:

Keep out of the reach of children.

Keep container in a well-ventilated place.

Keep away from food, drink and animal feedingstuffs. 13

29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

36/37 Wear suitable protective clothing and gloves.

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:			
CAS: 1330-20-7 EINECS: 215-535-7	xylene (mix) Xn R20/21 Xi R38 R10 Flam. Liq. 3, H226 ↑ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	60-80%	
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene Xn R20 F R11 Flam. Liq. 2, H225 Acute Tox. 4, H332	5-20%	
CAS: 107-98-2 EINECS: 203-539-1	1-methoxy-2-propanol R10 ⋄ Flam. Liq. 3, H226	5-20%	
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate	0-5%	
CAS: 8052-41-3 EINECS: 232-489-3	Mineral spirits Xn R65 Carc. 1B, H350; Asp. Tox. 1, H304	0-5%	

· SVHC

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

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Safety data sheet

according to 1907/2006/EC, Article 31

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

4 First aid measures

- · Description of first aid measures
- · General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact Immediately wash with water and soap and rinse thoroughly.

· 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, 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:** Mount respiratory protective device.

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.

Dilute with plenty of water.

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).

Dispose contaminated material as waste according to item 13.

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.

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· 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:

1330-20-7 xylene (mix)

WEL Short-term value: 441 mg/m³, 100 ppm

Long-term value: 220 mg/m³, 50 ppm

Sk: BMGV

100-41-4 ethylbenzene

WEL Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 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

108-65-6 2-methoxy-1-methylethyl acetate

WEL Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 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 skin.

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 to be observed.

· 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: 120°C

• Flash point: 24°C

· Ignition temperature: 270°C

• Self-igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour

mixtures are possible.

· Explosion limits:

 Lower:
 1.0 Vol %

 Upper:
 7.8 Vol %

· Vapour pressure at 20°C: 9.5 hPa

· Density: Not determined

· Solubility in / Miscibility with

Water: Fully miscible

· Solvent content:

Organic solvents: 50 - 80 %

Solids content: 20 - 50 %

• Other information Xylene Concentration (% by Wt.):

Black - 60.4% / White - 41.9% / Yellow - 42.3% / Blue - 50.8% / Green - 48.7% / Light Green - 43.9% / Orange - 48.9% / Red - 60.7% / Purple - 41.9% / Silver - 78.5% / Pink - 43.3% / Light

Violet - 41.9% / Gold - 52.2%

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.

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· *Incompatible materials:* No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values relevant for classification:		
1330-20-7 xylene (mix)		
Oral	LD50	8700 mg/kg (rat)
Dermal	<i>LD50</i>	2000 mg/kg (rbt)
Inhalative	LC50/4 h	6350 mg/l (rat)

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- on the eve: No 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. Harmful

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 hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

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

Danger to drinking water if even 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.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

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Transport information	
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	
8	
Class Label	3 Flammable liquids.
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
Packing group ADR, IMDG	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler): EMS Number:	30 F-E,S-D
Transport in bulk according to Ann. MARPOL73/78 and the IBC Code	· · · · · · · · · · · · · · · · · · ·
Transport/Additional information:	
ADR 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 %
NK	94.1

- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- Harmful if inhaled. H332
- H350 May cause cancer.
- R10 Flammable.
- R11 Highly flammable.
- Harmful by inhalation.
- R20/21 Harmful by inhalation and in contact with skin.
- *Irritating to eyes.*
- R38 Irritating to skin.
- R65 Harmful: may cause lung damage if swallowed.
- · MSDS Created By: Jacqueline Cullum
- · File: 37
- · Revision Information (All previous revisions obsolete):
- 02-09-2012 New SDS format added xylene % by Wt.,SVHC
- 04-12-2010 New SDS created for all pigmented xylene based markers combined
- · 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
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent

GB