Safety data sheet

Sajety data sneet S for #22198 - MONTANA BLK MRKRding to 1907/2006/EC, Article 31	P
Printing date 03.11.2011	Revision: 03.11.2011
· Product identifier	
• Trade name: Montana Black Ink yellow • Relevant identified uses of the substance or mixture and uses advised against: - • Application of the substance / the preparation: marker ink	
Details of the supplier of the safety data sheet: Manufacturer/Supplier Georg Linz GmbH & Co.KG Röthensteig 17 Germany-90408 Nürnberg Phone: +49(0) 911/937719-0 Fax : +49(0) 911/937719-44	
• Further information obtainable from:as above • Emergency telephone number: as above	
2 Hazards identification	
· Classification of the substance or mixture	
 Classification according to Directive 67/548/EEC or Directive 1999/45/EC F Highl Hazard description: F Highly flammable Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Copreparations of the EU" in the latest valid version. Has a narcotizing effect. R 11 Highly flammable. R 67 Vapours may cause drowsiness and dizziness. Classification system: The classification is according to the latest editions of the EU-lists, and extended b data. 	lassification guideline for
· Label elements	
• Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Materials.	Ordinance on Hazardous
· Code letter and hazard designation of product:	
F Highly flammable	
• Risk phrases:	

11 Highly flammable. 67 Vapours may cause drowsiness and dizziness.

· Safety phrases:

- 2 Keep out of the reach of children.
- 7/9 Keep container tightly closed and in a well-ventilated place.
- 18 Handle and open container with care.
- 20/21 When using do not eat, drink or smoke.
- 24/25 Avoid contact with skin and eyes.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB**: Not applicable.

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Chemical characteri Description: Mixture	zation: Mixtures of substances listed below with nonhazardo	ous additions.		
· Dangerous components:				
CAS: 64-17-5 EINECS: 200-578-6	ethanol	F R11	50-100%	
CAS: 1569-02-4 EINECS: 216-374-5	1-ethoxypropan-2-ol	R10-67	10-25%	
CAS: 107-98-2 EINECS: 203-539-1	1-methoxypropan-2-ol	R10	2.5-10%	
	C.I.Solvent Yellow 81	Xi R36 R52/53	2.5-10%	

4 First aid measures

· Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Wash with water and soap.
- After eye contact: Rinse opened eye for several minutes under running water. Consult doctor.
- After swallowing: Rinse mouth with water (only if person conscious). If symptoms persist consult doctor.
- · 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.
- · For safety reasons unsuitable extinguishing agents: 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: Do not allow product to reach sewage system or any water course. Prevent seepage into sewage system, workpits and cellars. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. · 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 7 for information on safe handling. See Section 8 for information on personal protection equipment. (Contd. on page 3)

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See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling Open and handle receptacle with care.
- 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: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- 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:
- 64-17-5 ethanol
- WEL Long-term value: 1920 mg/m³, 1000 ppm
- 107-98-2 1-methoxypropan-2-ol

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

• Additional information: The lists valid during the making were used as basis.

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.
- Protection of hands:
- Protective gloves recomended during handling/refilling large quantities.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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 be checked prior to the application.

· Penetration time of glove material

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

• Eye protection: Tightly sealed goggles recomended during handling/refilling large quantities.

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Information on basic physical and cl	hamical properties
General Information	iemical properties
Appearance:	
Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	78°C
Flash point:	13°C
Flammability (solid, gaseous):	-
Ignition temperature:	255°C
Decomposition temperature:	Not determined.
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:	1.3 Vol %
Upper:	15.0 Vol %
Vapour pressure at 20°C:	59 hPa
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Segregation coefficient (n-octanol/w	ater): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	75,0 %
Water:	1.5 %
Solids content:	23.5 %
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: No irritating effect.
 Sensitization: No sensitizing effects known.

12 Ecological information

· Toxicity

- · Acquatic 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 1 (German Regulation) (Self-assessment): slightly hazardous for water
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- 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.
- Waste disposal key: 080111(waste containing organic solvents)
- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

· UN-Number	
· ADR, IMDG, IATA	UN1263
· UN proper shipping name	
ADR	1263 PAINT (vapour pressure at 50°C not more than 110 kPa)
· IMDG, IATA	PAINT

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• Transport hazard class(es)	
· ADR	
· Class	3 Flammable liquids.
· Label	3
· IMDG, IATA	
3	
· Class · Label	3 Flammable liquids.
	3
· Packing group · ADR, IMDG, IATA	II
• Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids.
· Danger code (Kemler): · EMS Number:	33 F-E,S-E
Transport in bulk according to Anne MARPOL73/78 and the IBC Code	x II of Not applicable.
Transport/Additional information:	
ADR	DÆ
• Tunnel restriction code	D/E
Regulatory information	
Safety, health and environmental reg	gulations/legislation specific for the substance or mixture
• National regulations:	
• Technical instructions (air):	
Class Share in %	
Wasser 1.5	
NK 74.6	
	ss 1 (Self-assessment): slightly hazardous for water.
• Chemical safety assessment: A Chem	nical Safety Assessment has not been carried out.
Other information	
	esent knowledge. However, this shall not constitute a guarantee for a t establish a legally valid contractual relationship.
specific product jediures and shall no	ι εδιασιώστα το εξάτη γ νατά εσπηταετικά τεταποπωτήρ.

R11 Highly flammable*R36* Irritating to eyes. Highly flammable.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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R67 Vapours may cause drowsiness and dizziness.

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