

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

- **Product identifier**
- **Trade name:** *Montana Acrylic water based ink paint (marker and refill)*
- **Article number:**
322709 - 322815, 322822 - 323119, 323126 - 323461, 323478, 323492, 323508, 323515, 323522 - 323751, 323768 - 324031, 330438 - 330469, 346361, 346460, 346569
- **Relevant identified uses of the substance or mixture and uses advised against --**
- **Application of the substance / the preparation Ink**
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
L&G Vertriebs GmbH
Häusserstr. 36
D-69115 Heidelberg
Tel. +49-6221-36333-30
Fax +49-6221-36333-33
info@montana-cans.de
www.montana-cans.com
- **Information department:** Department Product Safety
- **Emergency telephone number:**
Tel.: +49 6266-75-310
Fax +49 6266-75-362
(Mo - Th 08:00 am - 04:00 pm, Fr 08:00 am - 00:30 pm)

2 Hazards identification

- **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of international guidelines.
- **Label elements**
- **Additional information:** Void
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**
Health = 0
Fire = 0
Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**
Health = 0
Fire = 0
Reactivity = 0
- **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 the substances listed below with nonhazardous additions.

· **Dangerous components:**

1333-86-4	Carbon black		12.5-<20%
64-17-5	ethanol	F R11	2.5-<5.0%

- **Additional information:**
*The content of Benzene (EINECS-Nr. 200-753-7) in the ingredients is less than 0,1% (Note P Annex 1 67/548 EU), so the classification as carcinogen need not to apply.
For the wording of the listed risk phrases refer to section 16.*

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4 First aid measures

- Description of first aid measures
General information: No special measures required.
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.
After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a 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, extinguishing 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 -

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required.
Environmental precautions: No special measures required.
Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Reference to other sections
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- Handling:
Precautions for safe handling No special measures required.
Information about protection against explosions and fires: 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: None.
Storage class: 12
Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.

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· Control parameters

· Components with limit values that require monitoring at the workplace:

1333-86-4 Carbon black

PEL	3.5 mg/m ³
REL	3.5* mg/m ³ *0.1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV	3* mg/m ³ *inhalable fraction

64-17-5 ethanol

PEL	1900 mg/m ³ , 1000 ppm
REL	1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1880 mg/m ³ , 1000 ppm

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

· Breathing equipment: Not required.

· Protection of hands:

Solvent resistant gloves

In case of contact with spray dust protective gloves made of butyl should be used (min. 0.4 mm thick), e.g. KCL Camatril, article no. 898 or similar products

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: Butyl rubber, BR

· Penetration time of glove material

Butyl rubber gloves with a thickness of 0.4 mm are resistant to:

Acetone: 480 min

Butyl acetate: 60 min

Ethyl acetate: 170 min

Xylene: 42 min

· Eye protection: Safety glasses

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid
Color: According to product specification

· Odor: Odorless

· Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 100 °C (212 °F)

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not applicable.

· Decomposition temperature: Not determined.

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USA

Safety Data Sheet

MSDS for #19907 - MONTANA ACRYLIC MRKR *acc. to OSHA HCS*

Printing date 02/18/2013

Reviewed on 02/18/2013

Trade name: Montana Acrylic water based ink paint (marker and refill)

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· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapor pressure:	Not determined.
· Density at 20 °C (68 °F):	1.16 g/cm ³ (9.68 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
· Solvent content: VOC-USA VOC-EU	3.0 % 34.8 g/l / 0.29 lb/gl . 34.8 g/l
· 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.
- **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.
- **Additional toxicological information:**
 The product is not subject to classification according to internally approved calculation methods for preparations:
 When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
 Vapors have narcotic effect.
- **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

1333-86-4 Carbon black

2B

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Trade name: Montana Acrylic water based ink paint (marker and refill)

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13463-67-7 titanium dioxide

2B

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior 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 (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:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Void
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Void
- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Void
- **Packing group**
- **DOT, ADR, IMDG, IATA** Void
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** -

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

1333-86-4 Carbon black

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

64-17-5 ethanol

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

1333-86-4	Carbon black	A4
13463-67-7	titanium dioxide	A4
64-17-5	ethanol	A3

· MAK (German Maximum Workplace Concentration)

1333-86-4	Carbon black	3B
13463-67-7	titanium dioxide	3A
64-17-5	ethanol	5

· NIOSH-Ca (National Institute for Occupational Safety and Health)

1333-86-4	Carbon black
13463-67-7	titanium dioxide

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· 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.

· Abbreviations and acronyms:

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organization
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists

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NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)

USA

Item Numbers: 19907-1007, 19907-1009, 19907-1015, 19907-1020, 19907-1030, 19907-1050, 19907-1107, 19907-1115, 19907-1120, 19907-1125, 19907-1130, 19907-1150, 19907-1160, 19907-1310, 19907-1311, 19907-1312, 19907-1325, 19907-1328, 19907-2015, 19907-2018, 19907-2020, 19907-2021, 19907-2022, 19907-2023, 19907-2025, 19907-2430, 19907-2431, 19907-2432, 19907-2433, 19907-2435, 19907-2445, 19907-2448, 19907-2501, 19907-2502, 19907-2505, 19907-2508, 19907-3010, 19907-3011, 19907-3012, 19907-3015, 19907-3018, 19907-3061, 19907-3062, 19907-3065, 19907-3068, 19907-3121, 19907-3125, 19907-3371, 19907-3375, 19907-3710, 19907-3711, 19907-3712, 19907-3715, 19907-3718, 19907-3721, 19907-3725, 19907-3760, 19907-3761, 19907-3762, 19907-3765, 19907-3768, 19907-3911, 19907-3912, 19907-3915, 19907-3918, 19907-4001, 19907-4002, 19907-4005, 19907-4008, 19907-4010, 19907-4011, 19907-4012, 19907-4015, 19907-4018, 19907-4221, 19907-4225, 19907-4501, 19907-4502, 19907-4505, 19907-4508, 19907-4511, 19907-4512, 19907-4515, 19907-4518, 19907-4521, 19907-4525, 19907-4531, 19907-4532, 19907-4535, 19907-4538, 19907-5011, 19907-5012, 19907-5015, 19907-5018, 19907-5020, 19907-5021, 19907-5022, 19907-5025, 19907-5028, 19907-5030, 19907-5031, 19907-5032, 19907-5035, 19907-5038, 19907-5591, 19907-5595, 19907-6030, 19907-6031, 19907-6032, 19907-6035, 19907-6038, 19907-7001, 19907-7002, 19907-7005, 19907-7008, 19907-7010, 19907-7011, 19907-7012, 19907-7015, 19907-7018, 19907-7031, 19907-7032, 19907-7035, 19907-7038, 19907-7931, 19907-7935, 19907-8000, 19907-8001, 19907-8002, 19907-8005, 19907-8008, 19907-8011, 19907-8012, 19907-8015, 19907-8018, 19907-8031, 19907-8032, 19907-8035, 19907-8038, 19907-8129, 19907-8139, 19907-8141, 19907-8145, 19907-8151, 19907-8155, 19907-9001, 19907-9002, 19907-9003, 19907-9004, 19907-9006, 19907-9106, 19907-9511, 19907-9512, 19907-9513, 19907-9514