

Safety Data Sheet
acc. to OSHA HCS

Printing date 04/24/2019

Reviewed on 04/15/2019

1 Identification

- **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, 371448, 371455, 371479, 371486, 371578, 371585, 371608, 371615, 385940, 385960, 385988
- **Application of the substance / the mixture** Paint
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
MONTANA CANS
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 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 1A H350 May cause cancer.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Flam. Liq. 4 H227 Combustible liquid.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

ethanol

Amines, C12-14-branched alkyl, 4-[(5-cyano-1-ethyl-5,6-dihydro-2-hydroxy-4-methyl-6-oxo-3-pyridinyl)azo]-1,3-benzenedisulfonate

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- **Hazard statements**
 H227 Combustible liquid.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H350 May cause cancer.
 - **Precautionary statements**
 P280 Wear protective gloves / eye protection.
 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.
 - **Classification system:**
 - **NFPA ratings (scale 0 - 4)**
- | | | |
|---|---|---|
| 2 | 2 | 0 |
|---|---|---|
- Health = 2
 - Fire = 2
 - Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**
- | | | |
|------------|---|----------------|
| HEALTH | 2 | Health = *2 |
| FIRE | 2 | Fire = 2 |
| REACTIVITY | 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:

| | | |
|--|--|---------|
| CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 | ethanol ⚠ Flam. Liq. 2, H225 ⚠ Carc. 1A, H350 ⚠ Eye Irrit. 2A, H319 | 50-<75% |
| CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3 | 1-methoxy-2-propanol ⚠ Flam. Liq. 3, H226 | 25-<50% |
| CAS: 6786-83-0 EINECS: 229-851-8 | alpha,alpha-bis[4-(dimethylamino)phenyl]-4-(phenylamino) naphthalene-1-methanol ⚠ Acute Tox. 3, H301 | <1% |
| CAS: 94279-65-9 | Amines, C12-14-branched alkyl, 4-[(5-cyano-1-ethyl-5,6-dihydro-2-hydroxy-4-methyl-6-oxo-3-pyridinyl)azo]-1,3-benzenedisulfonate ⚠ Eye Irrit. 2A, H319; Skin Sens. 1, H317 | <1% |

· **Additional information:**
 The content of Benzene (EINECS-Nr. 200-753-7) in the ingredients is less than 0,1% (Note P Annex 1A 1272/2008 EU), so the classification as carcinogen need not to apply.

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**
 Supply fresh air and to be sure call for a doctor.

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- 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. If symptoms persist, consult a doctor.
- **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 Fire-fighting 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 -**
- **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 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).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **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.
- **Storage class:** 10
- **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:

64-17-5 ethanol

| | |
|-----|---|
| PEL | Long-term value: 1900 mg/m ³ , 1000 ppm |
| REL | Long-term value: 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:

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.
- Avoid contact with the eyes.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:

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
Solvent resistant gloves



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

Butyl rubber, BR

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

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

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

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9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - **Form:** Fluid
 - **Color:** According to product specification
 - **Odor:** Characteristic
 - **Odor threshold:** Not determined.
- **pH-value at 20 °C (68 °F):** 7-10
- **Change in condition**
 - **Melting point/Melting range:** Undetermined.
 - **Boiling point/Boiling range:** 100 °C (212 °F)
- **Flash point:** >61 °C (>141.8 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Decomposition temperature:** Not determined.
- **Danger of explosion:** Not determined.
- **Explosion limits:**
 - **Lower:** Not determined.
 - **Upper:** Not determined.
- **Density:** Not determined.
- **Relative density** Not determined.
- **Vapor 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:** Not determined.
 - **Kinematic:** Not determined.
- **Solvent content:**
 - **Organic solvents:** 85.0 %
 - **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **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.

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11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:

64-17-5 ethanol

| | | |
|------------|-----------|--------------------|
| Oral | LD50 | 10,470 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rat) |
| Inhalative | LC50 / 4h | 120 mg/l (rat) |

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

Vapors have narcotic effect.
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

| | | |
|------------|------------------|----|
| 1333-86-4 | Carbon black | 2B |
| 13463-67-7 | titanium dioxide | 2B |

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

· Aquatic toxicity:

64-17-5 ethanol

| | |
|-------------|---|
| LC50/96h | 13,000 mg/l (oncorhynchus mykiss / Regenbogenforelle) |
| EC50 / 48 h | 12,900 mg/l (algae) |
| LC50 / 48 h | 12,340 mg/l (daphnia magna) |

· 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.

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13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**
Disposal must be made according to official regulations.
Contains Amines, C12-14-branched alkyl, 4-[(5-cyano-1-ethyl-5,6-dihydro-2-hydroxy-4-methyl-6-oxo-3-pyridinyl)azo]-1,3-benzenedisulfonate. May produce an allergic reaction.

14 Transport information

- **UN-Number**
- **DOT, ADN, IMDG, IATA** not regulated
- **UN proper shipping name**
- **DOT, ADN, IMDG, IATA** not regulated
- **Transport hazard class(es)**
- **DOT, ADN, IMDG, IATA**
- **Class** not regulated
- **Packing group**
- **DOT, IMDG, IATA** not regulated
- **Environmental hazards:** Not applicable.
- **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":** not regulated

15 Regulatory information

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

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

1333-86-4 Carbon black

13463-67-7 titanium dioxide

64-17-5 ethanol

· **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.

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Chemicals known to cause developmental toxicity:

64-17-5 ethanol

Carcinogenic 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 |

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

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

National regulations:

Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

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

- H225 Highly flammable liquid and vapor.
- H226 Flammable liquid and vapor.
- H301 Toxic if swallowed.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H350 May cause cancer.

Date of preparation / last revision 04/24/2019 / 8

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 Organisation
- 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
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- Flam. Liq. 2: Flammable liquids – Category 2
- Flam. Liq. 3: Flammable liquids – Category 3
- Flam. Liq. 4: Flammable liquids – Category 4
- Acute Tox. 3: Acute toxicity – Category 3
- Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

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USA

Safety Data Sheet

MSDS for #19907 - MONTANA ACRYLIC MRKR

acc. to OSHA HCS

Printing date 04/24/2019

Reviewed on 04/15/2019

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

*Skin Sens. 1: Skin sensitisation – Category 1
Carc. 1A: Carcinogenicity – Category 1A*

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*** Data compared to the previous version altered.**

USA

Item Numbers: 19907-1001, 19907-1002, 19907-1009, 19907-1019, 19907-1029, 19907-1125, 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, 19907-7021, 19907-7025, 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