

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/06/2022

Reviewed on 04/22/2022

1 Identification

- **Product identifier**
- **Trade name:** MONTANA EFFECT Marble various colours
- **Article number:**
100092, 100093, 415357, 415364, 493935, 493942, 522826, 100091alt, 415371alt, 508134alt
- **Application of the substance / the mixture** Lacquer
- **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.com
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**



GHS02 Flame

Flammable Aerosols 1

H222 Extremely flammable aerosol.



GHS04 Gas cylinder

Gases under Pressure - Compressed gas

H280 Contains gas under pressure; may explode if heated.



GHS08 Health hazard

Carcinogenicity 2

H351 Suspected of causing cancer. Route of exposure: Inhalation.



GHS07

Eye Irritation 2A

H319 Causes serious eye irritation.

Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).

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· Hazard pictograms



GHS02 GHS04 GHS07 GHS08

· Signal word *Danger*

· Hazard-determining components of labeling:

acetone

2-methoxy-1-methylethyl acetate

Hydrocarbons, C9, aromatics

· Hazard statements

H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer. Route of exposure: Inhalation.

H336 May cause drowsiness or dizziness.

· Precautionary statements

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

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: Do not pierce or burn, even after use.

P260 Do not breathe spray.

P280 Wear protective gloves / eye protection.

P285 In case of inadequate ventilation wear respiratory protection.

P302+P352 If on skin: Wash with plenty of soap and water.

P312 Call a poison center/doctor if you feel unwell.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 2

Fire = 4

Reactivity = 3

· HMIS-ratings (scale 0 - 4)



Health = 2

Fire = 4

Reactivity = 3

· 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.

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Dangerous components:

CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8	dimethyl ether ⚠ Flammable Gases 1, H220 ⚠ Gases under Pressure - Compressed gas, H280	75-≤100%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8	acetone ⚠ Flammable Liquids 2, H225 ⚠ Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	10-<12.5%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7	2-methoxy-1-methylethyl acetate ⚠ Flammable Liquids 3, H226 ⚠ Specific Target Organ Toxicity - Single Exposure 3, H336	<2.5%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2	titanium dioxide ⚠ Carcinogenicity 2, H351	<1%
CAS: 1333-86-4 EINECS: 215-609-9	Carbon black ⚠ Carcinogenicity 2, H351	≤0.5%

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; consult doctor in case of complaints.
- **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. Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters -**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

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- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

115-10-6	dimethyl ether	3,000 ppm
67-64-1	acetone	200 ppm
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
13463-67-7	titanium dioxide	30 mg/m ³
1333-86-4	Carbon black	9 mg/m ³
1330-20-7	xylene	130 ppm
123-86-4	n-butyl acetate	5 ppm
70657-70-4	2-methoxypropyl acetate	50 ppm
14808-60-7	Quartz (SiO ₂)	0.075 mg/m ³

· **PAC-2:**

115-10-6	dimethyl ether	3800* ppm
67-64-1	acetone	3200* ppm
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
13463-67-7	titanium dioxide	330 mg/m ³
1333-86-4	Carbon black	99 mg/m ³
1330-20-7	xylene	920* ppm
123-86-4	n-butyl acetate	200 ppm
70657-70-4	2-methoxypropyl acetate	1,000 ppm
14808-60-7	Quartz (SiO ₂)	33 mg/m ³

· **PAC-3:**

115-10-6	dimethyl ether	7200* ppm
67-64-1	acetone	5700* ppm
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
13463-67-7	titanium dioxide	2,000 mg/m ³
1333-86-4	Carbon black	590 mg/m ³
1330-20-7	xylene	2500* ppm
123-86-4	n-butyl acetate	3000* ppm
70657-70-4	2-methoxypropyl acetate	5,000 ppm
14808-60-7	Quartz (SiO ₂)	200 mg/m ³

* **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.
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

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- Storage class: 2 B
- Specific end use(s) No further relevant information available.

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8 Exposure controls/personal protection

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

Components with limit values that require monitoring at the workplace:

115-10-6 dimethyl ether

WEEL Long-term value: 1000 ppm

67-64-1 acetone

PEL Long-term value: 2400 mg/m³, 1000 ppmREL Long-term value: 590 mg/m³, 250 ppmTLV Short-term value: 500 ppm
Long-term value: 250 ppm
A4, BEI

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

WEEL Long-term value: 50 ppm

13463-67-7 titanium dioxide

PEL Long-term value: 15* mg/m³
*total dust

REL See Pocket Guide App. A

TLV Long-term value: (10) NIC-0.2* NIC-2.5** mg/m³
NIC: resp. fraction, *nanoscale, **finescale, A3

1333-86-4 Carbon black

PEL Long-term value: 3.5 mg/m³REL Long-term value: 3.5* mg/m³
0.1 in presence of PAHs; See Pocket Guide Apps.A+CTLV Long-term value: 3 mg/m³
*inhalable fraction, A3

Ingredients with biological limit values:

67-64-1 acetone

BEI 25 mg/L
Medium: urine
Time: end of shift
Parameter: Acetone (nonspecific)

- 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.
Do not inhale gases / fumes / aerosols.
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.

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Filter A2/P3

Protection of hands:



Protective gloves

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.

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

Butyl rubber gloves with a thickness of 0.4 mm are solvent resistant for 42- 480 minutes. As protective measure, we recommend that users and responsible persons for work safety assume solvent resistance length of 42 minutes. Considering the data in section 3 of this SDS, one can assume longer resistance length in particular cases.

Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:

Aerosol

Color:

According to product specification

Odor:

Characteristic

Odor threshold:

Not determined.

pH-value:

Mixture is non-soluble (in water).

Change in condition

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

Not applicable, as aerosol.

Flash point:

Not applicable, as aerosol.

Flammability (solid, gaseous):

Not applicable.

Ignition temperature:

240 °C (464 °F)

Decomposition temperature:

Not determined.

Danger of explosion:

Not determined.

Explosion limits:

Lower:

1 Vol %

Upper:

8 Vol %

Vapor pressure at 20 °C (68 °F):

4000 hPa (3000.2 mm Hg)

Density at 20 °C (68 °F):

0.9 g/cm³ (7.5 lbs/gal)

Relative density

Not determined.

Vapor density

Not determined.

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· Evaporation rate	Not applicable.
· 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:	89.5 %
VOC content:	808.1 g/l / 6.74 lb/gal
Solids content:	10.5 %
· 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.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
67-64-1 acetone		
Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	>15800 mg/kg (rabbit)
Inhalative	LC50 / 4h	76 mg/l (rat)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8530 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50 / 4 h	>10000 mg/m3 (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **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)		
9003-20-7	polyvinyl acetat	3
13463-67-7	titanium dioxide	2B

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1333-86-4	Carbon black	2B
1330-20-7	xylene	3
14808-60-7	Quartz (SiO ₂)	I

· NTP (National Toxicology Program)

14808-60-7	Quartz (SiO ₂)	K
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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

· Aquatic toxicity:

115-10-6 dimethyl ether

EC50 / 96 h	155 mg/l (algae)
LC50 / 48 h	>4000 mg/l (daphnia magna)
LC50 / 96 h	>4000 mg/l (fish)

67-64-1 acetone

LC50/96h	8300 mg/l (fish)
EC50/96h	7200 mg/l (algae)
LC50 / 48 h	8450 mg/l (crustacean (water flea))

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

EC50 / 48 h	>500 mg/l (daphnia magna)
LC50 / 96 h	100-180 mg/l (oncorhynchus mykiss / Regenbogenforelle)

· 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:

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.

Disposal must be made according to official regulations.

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14 Transport information

· UN-Number · DOT, IMDG, IATA	UN1950
· UN proper shipping name · DOT · IMDG · IATA	Aerosols, flammable AEROSOLS AEROSOLS, flammable
· Transport hazard class(es) · DOT	
	
· Class · Label	2.1 Gases 2.1
· IMDG, IATA	
	
· Class · Label	2.1 Gases 2.1
· Packing group · DOT, IMDG, IATA	not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Code	Warning: Gases - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
· Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information: · DOT · Quantity limitations	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity

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· UN "Model Regulation":

UN 1950 AEROSOLS, 2.1

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

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

None of the ingredients is listed.

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

1330-20-7 xylene

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

115-10-6	dimethyl ether	ACTIVE
67-64-1	acetone	ACTIVE
9003-20-7	polyvinyl acetat	ACTIVE
108-65-6	2-methoxy-1-methylethyl acetate	ACTIVE
13463-67-7	titanium dioxide	ACTIVE
64742-95-6	Hydrocarbons, C9, aromatics	ACTIVE
1333-86-4	Carbon black	ACTIVE
1330-20-7	xylene	ACTIVE
147-14-8	phthalocyanine blue	ACTIVE
980-26-7	C.I Pigment Rot 122	ACTIVE
5567-15-7	C.I. Pigment Yellow 83	ACTIVE
6358-31-2	C.I. Pigment Yellow 74	ACTIVE
6535-46-2	C.I. Pigment Red 112	ACTIVE
12236-62-3	C.I. Pigment Orange 36	ACTIVE
14059-33-7	BRUFASOL-yellow AL2300	ACTIVE
51274-00-1	C.I. Pigment Yellow 42	ACTIVE
215247-95-3	C.I. Pigment Violet 23	ACTIVE
123-86-4	n-butyl acetate	ACTIVE
1302-78-9	bentonite	ACTIVE
70657-70-4	2-methoxypropyl acetate	*
68953-58-2	Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite	ACTIVE
14808-60-7	Quartz (SiO2)	ACTIVE

· **Hazardous Air Pollutants**

1330-20-7 xylene

· **Proposition 65**· **Chemicals known to cause cancer:**

13463-67-7 titanium dioxide

1333-86-4 Carbon black

14808-60-7 Quartz (SiO2)

· **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:**

None of the ingredients is listed.

· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

67-64-1	acetone	I
1330-20-7	xylene	I

· **TLV (Threshold Limit Value)**

67-64-1	acetone	A4
13463-67-7	titanium dioxide	A4
1333-86-4	Carbon black	A4
1330-20-7	xylene	A4
14808-60-7	Quartz (SiO ₂)	A2

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

13463-67-7	titanium dioxide
1333-86-4	Carbon black
14808-60-7	Quartz (SiO ₂)

· **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**

H220 Extremely flammable gas.
 H225 Highly flammable liquid and vapor.
 H226 Flammable liquid and vapor.
 H280 Contains gas under pressure; may explode if heated.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H351 Suspected of causing cancer.

· **Contact:**· **Date of preparation / last revision** 05/06/2022 / 6· **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)
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organisation
 ADR: Accord relatif au transport international 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
 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
 BEI: Biological Exposure Limit
 ACGIH: American Conference of Governmental Industrial Hygienists

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Safety Data Sheet

MSDS for #01450 - MONTANA EFFECT SPRAY *acc. to OSHA HCS*

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- Flammable Gases 1: Flammable gases – Category 1*
 - Flammable Aerosols 1: Aerosols – Category 1*
 - Gases under Pressure - Compressed gas: Gases under pressure – Compressed gas*
 - Flammable Liquids 2: Flammable liquids – Category 2*
 - Flammable Liquids 3: Flammable liquids – Category 3*
 - Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A*
 - Carcinogenicity 2: Carcinogenicity – Category 2*
 - Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3*
- * Data compared to the previous version altered.**

US