

**1 Identification**

- **Product identifier**
- **Trade name:** *MONTANA Varnish gloss, semi gloss, mat*
- **Article number:** T1000, T1005, T1010, 376351, 376368, 376375, 396304, 396328, 396335
- **Relevant identified uses of the substance or mixture and uses advised against --**
- **Application of the substance / the mixture** Clear coating material, Varnish
- **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**

- **Information concerning particular hazards for human and environment:**  
*The product has to be labeled due to the calculation procedure of international guidelines.  
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.  
Warning! Pressurized container.  
Has a narcotizing effect.*
- **Label elements**
- **GHS label elements**  
*The product is classified and labeled according to the Globally Harmonized System (GHS).*
- **Hazard pictograms** GHS02, GHS07
- **Signal word** Danger
- **Hazard statements**  
*Extremely flammable aerosol. Pressurized container: May burst if heated.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.*
- **Precautionary statements**  
*If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use.  
Do not breathe spray.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
Dispose of contents / container in accordance with local/regional/national/international regulations.*
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**  
Health = 1  
Fire = 0  
Reactivity = 3
- **HMIS-ratings (scale 0 - 4)**  
Health = 1  
Fire = 0  
Reactivity = 3
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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· **vPvB:** Not applicable.

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### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 RTECS: AL 3150000 Reg.nr.: 01-2119471330-49	acetone	Xi R36; F R11 R66-67	25-<50%
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 RTECS: PM 4780000 Reg.nr.: 01-2119472128-37	dimethyl ether	F+ R12	20-<25%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 RTECS: TX 2275000 Reg.nr.: 01-2119486944-21	propane	F+ R12	10-<12.5%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 RTECS: EJ 4200000 Reg.nr.: 01-2119474691-32	butane	F+ R12	5-<10%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 RTECS: AF 7350000 Reg.nr.: 01-2119485493-29	n-butyl acetate	R10-66-67	5-<10%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate	R10	2.5-<5.0%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 RTECS: TZ 4300000 Reg.nr.: 01-2119485395-27	isobutane	F+ R12	2.5-<5.0%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 RTECS: NT 8050000 Reg.nr.: 01-2119457558-25	propan-2-ol	Xi R36; F R11 R67	<2.5%
CAS: 64742-94-5 EINECS: 265-198-5 Index number: 649-424-00-3 Reg.nr.: 01-2119510128-50	Solvent naphtha (petroleum), heavy arom.	Xn R65	<2.5%

· **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.

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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**
- **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. 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:**  
CO<sub>2</sub>, extinguishing 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:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.  
Do not allow product to reach sewage system or any water course.
- **Methods and material for containment and cleaning up:**  
Do not flush with water or aqueous cleansing agents  
Ensure adequate ventilation.
- **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.

#### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about protection against explosions and fires:**  
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.

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- Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
 Store in cool, dry conditions in well sealed receptacles.  
 Protect from heat and direct sunlight.
- **Storage class:** 2B
- **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.
- **Control parameters**

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

**67-64-1 acetone**

PEL ()	Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm
REL ()	Long-term value: 590 mg/m <sup>3</sup> , 250 ppm
TLV ()	Short-term value: (1782) NIC-1187 mg/m <sup>3</sup> , (750) NIC-500 ppm Long-term value: (1188) NIC-594 mg/m <sup>3</sup> , (500) NIC-250 ppm BEI

**115-10-6 dimethyl ether**

WEEL ()	Long-term value: 1000 ppm
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**74-98-6 propane**

PEL ()	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
REL ()	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
TLV ()	refer to Appendix F

**106-97-8 butane**

REL ()	Long-term value: 1900 mg/m <sup>3</sup> , 800 ppm
TLV ()	Short-term value: 2370 mg/m <sup>3</sup> , 1000 ppm

**123-86-4 n-butyl acetate**

PEL ()	Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
REL ()	Short-term value: 950 mg/m <sup>3</sup> , 200 ppm Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
TLV ()	Short-term value: 950 mg/m <sup>3</sup> , 200 ppm Long-term value: 713 mg/m <sup>3</sup> , 150 ppm

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

WEEL ()	Long-term value: 50 ppm
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**75-28-5 isobutane**

TLV ()	Short-term value: 2370 mg/m <sup>3</sup> , 1000 ppm
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**67-63-0 propan-2-ol**

PEL ()	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
REL ()	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
TLV ()	Short-term value: 984 mg/m <sup>3</sup> , 400 ppm Long-term value: 492 mg/m <sup>3</sup> , 200 ppm BEI

· **Ingredients with biological limit values:**

**67-64-1 acetone**

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BEI ( )	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
<b>67-63-0 propan-2-ol</b>	
BEI ( )	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, 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.
- **Breathing equipment:**
  - Use suitable respiratory protective device in case of insufficient ventilation.
  - Filter AX
  - Not necessary if room is well-ventilated.
- **Protection of hands:**
  - Protective gloves
  - 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**
  - Natural rubber, NR
  - 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:**

<b>Form:</b>	Fluid
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.
- **pH-value:** Not determined.
- **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
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<b>Boiling point/Boiling range:</b>	Not applicable, as aerosol.
<b>Flash point:</b>	Not applicable, as aerosol.
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	235 °C (455 °F)
<b>Decomposition temperature:</b>	Not determined.
<b>Auto igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	In use, may form flammable/explosive vapour-air mixture.
<b>Explosion limits:</b>	
Lower:	1.7 Vol %
Upper:	18.6 Vol %
<b>Vapor pressure at 20 °C (68 °F):</b>	8300 hPa (6226 mm Hg)
<b>Density at 20 °C (68 °F):</b>	0.75 g/cm <sup>3</sup> (6.259 lbs/gal)
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not applicable.
<b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
Dynamic:	Not determined.
Kinematic:	Not determined.
<b>Solvent content:</b>	
VOC-USA	64.6 %
	726.4 g/l / 6.06 lb/gl
<b>Other information</b>	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:**
- |   |      |                      |
|---|------|----------------------|
| <b>LD/LC50 values that are relevant for classification:</b> |      |                      |
| <b>67-64-1 acetone</b>                                      |      |                      |
| Oral  | LD50 | 5800 mg/kg (rat)     |
| Dermal  | LD50 | 20000 mg/kg (rabbit) |
- **Primary irritant effect:**
  - **on the skin:** No irritant effect.
  - **on the eye:** Irritating effect.
  - **Sensitization:** No sensitizing effects known.

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

· **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>	
67-63-0	propan-2-ol
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· <b>NTP (National Toxicology Program)</b>	
None of the ingredients is listed.	

· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>	
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:**  
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.

**14 Transport information**

· <b>UN-Number</b>	
· <b>DOT, ADR, IMDG, IATA</b>	UN1950
· <b>UN proper shipping name</b>	
· <b>DOT</b>	Aerosols, flammable
· <b>ADR</b>	UN1950 Aerosols
· <b>IMDG</b>	AEROSOLS
· <b>IATA</b>	AEROSOLS, flammable
· <b>Transport hazard class(es)</b>	
· <b>DOT, IMDG, IATA</b>	
· <b>Class</b>	2.1

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· <b>Label</b>	2.1
· <b>ADR</b>	
· <b>Class</b>	2 5F Gases
· <b>Label</b>	2.1
· <b>Packing group</b>	
· <b>DOT, ADR, IMDG, IATA</b>	Void
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Warning: Gases
· <b>Danger code (Kemler):</b>	-
· <b>EMS Number:</b>	F-D,S-U
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>UN "Model Regulation":</b>	UN1950, Aerosols, 2.1

**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):**  
67-63-0 | propan-2-ol

· **TSCA (Toxic Substances Control Act):**  
All ingredients are listed.

- **Proposition 65**
- **Chemicals known to cause cancer:**  
Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

None of the ingredients is listed.

· **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:**  
None of the ingredients is listed.

- **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**  
67-64-1 | acetone

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Reviewed on 08/05/2014

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· **TLV (Threshold Limit Value established by ACGIH)**

67-64-1	acetone	A4
67-63-0	propan-2-ol	A4

· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **GHS label elements**

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

· **Hazard pictograms** GHS02, GHS07· **Signal word** Danger· **Hazard statements**

Extremely flammable aerosol. Pressurized container: May burst if heated.

Causes serious eye irritation.

May cause drowsiness or dizziness.

· **Precautionary statements**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

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

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

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

Do not breathe spray.

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

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

· **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**

R10 Flammable.

R11 Highly flammable.

R12 Extremely flammable.

R36 Irritating to eyes.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

· **Contact:** Anwendungstechnik· **Date of preparation / last revision** 08/05/2014 / -· **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 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

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

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**Safety Data Sheet**

MSDS for #01425 - MONTANA GOLD ACRYLIC *acc. to OSHA HCS*

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Reviewed on 08/05/2014

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*Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A*  
*STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3*

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