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**Material Safety Data Sheet**  
acc. to ISO/DIS 11014

**01430-XXXX**

Printing date 04/12/2012

Reviewed on 04/12/2012

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

- **Product identifier**
- **Trade name:** Montana WHITE all colours
- **Article number:** 280030 - 280429, 344237 - 344336
- **Application of the substance / the preparation** Lacquer
- **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:** Abteilung Produktsicherheit
- **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 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

67-64-1	acetone	Xi R36; F R11 R66-67 H225; H319; H336	12.5<20%
74-98-6	propane	F+ R12 H220; H280	12.5<20%
1330-20-7	xylene	Xn R20/21; Xi R38 R10 H226; H312; H332; H315	10-<12.5%
106-97-8	butane	F+ R12 H220; H280	10-<12.5%
75-28-5	isobutane	F+ R12 H220; H280	2.5-<5.0%
108-65-6	2-methoxy-1-methylethyl acetate	R10 H226	<2.5%
64742-95-6	Solvent naphtha (petroleum), light arom.	Xn R65; Xi R37; N R51/53 R10-66-67 H304	≤0.5%

· **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)

For the wording of the listed risk phrases refer to section 16.

### 3 Hazards identification

- **Information concerning particular hazards for human and environment:**  
The product has to be labelled due to the calculation procedure of international guidelines.  
Warning! Pressurized container.  
Has a narcotizing effect.

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- **Label elements**
- **Risk phrases:**  
*Extremely flammable.*  
*Irritating to eyes.*  
*Vapours may cause drowsiness and dizziness.*
- **Safety phrases:**  
*Keep out of the reach of children.*  
*Keep away from sources of ignition - No smoking.*  
*Do not breathe aerosol.*  
*Avoid contact with skin and eyes.*  
*Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.*  
*If swallowed, seek medical advice immediately and show this container or label.*  
*Use only in well-ventilated areas.*
- **Special labelling of certain preparations:**  
*Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.*  
*Do not spray on a naked flame or any incandescent material.*  
*Buildup of explosive mixtures possible without sufficient ventilation.*
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**  
Health = 1  
Fire = 3  
Reactivity = 3
- **HMS-ratings (scale 0 - 4)**  
Health = 1  
Fire = 3  
Reactivity = 3

#### \* 4 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.*

#### \* 5 Firefighting measures

- *Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.*
- *For safety reasons unsuitable extinguishing agents:*  
*Water*  
*Water with full jet*
- *Special hazards arising from the substance or mixture No further relevant information available.*
- *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.*

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- **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.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility: Not required.**
- **Further information about storage conditions:**  
Do not gas tight seal receptacle.  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.
- **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.**

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

#### 67-64-1 acetone

PEL ( )	2400 mg/m <sup>3</sup> , 1000 ppm
REL ( )	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-475 mg/m <sup>3</sup> , (500) NIC-200 ppm BEI

#### 74-98-6 propane

PEL ( )	1800 mg/m <sup>3</sup> , 1000 ppm
REL ( )	1800 mg/m <sup>3</sup> , 1000 ppm
TLV ( )	Varies mg/m <sup>3</sup> , 1000 ppm

#### 1330-20-7 xylene

PEL ( )	435 mg/m <sup>3</sup> , 100 ppm
REL ( )	Short-term value: 655 mg/m <sup>3</sup> , 150 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
TLV ( )	Short-term value: 651 mg/m <sup>3</sup> , 150 ppm Long-term value: 434 mg/m <sup>3</sup> , 100 ppm BEI

#### 106-97-8 butane

REL ( )	1900 mg/m <sup>3</sup> , 800 ppm
TLV ( )	Varies mg/m <sup>3</sup> , 1000 ppm

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75-28-5 isobutane	
REL ( )	1900 mg/m <sup>3</sup> , 800 ppm
TLV ( )	Varies mg/m <sup>3</sup> , 1000 ppm
108-65-6 2-methoxy-1-methylethyl acetate	
WEEL ( )	50 ppm

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

· **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:** Not required.

· **Protection of hands:**

Protective gloves

Solvent resistant gloves

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

### 9 Physical and chemical properties

· **General Information**

· **Appearance:**

Form: Aerosol

Color: According to product specification

· **Odor:** Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Not applicable, as aerosol.

· **Flash point:** Not applicable, as aerosol.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** In use, may form flammable/explosive vapour-air mixture.

· **Explosion limits:**

Lower: 1.1 Vol %

Upper: 13.0 Vol %

· **Vapor pressure at 20°C (68 °F):** 8300 hPa (6226 mm Hg)

· **Density at 20°C (68 °F):** 0.83 g/cm<sup>3</sup> (6.926 lbs/gal)

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· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
VOC-USA	41,6 % 462,6 g/l / 3,86 lb/gl
VOC-EU	511,5 g/l
· Other information	No further relevant information available.

**10 Stability and reactivity**

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

**11 Toxicological information**

- Acute toxicity:
  - LD/LC50 values that are relevant for classification:
- |                  |      |                      |
|------------------|------|----------------------|
| 67-64-1 acetone  |      |                      |
| Oral             | LD50 | 5800 mg/kg (rat)     |
| Dermal           | LD50 | 20000 mg/kg (rabbit) |
| 1330-20-7 xylene |      |                      |
| Oral             | LD50 | 4300 mg/kg (rat)     |
| Dermal           | LD50 | 500 mg/kg (rabbit)   |
- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: Irritating effect.
  - Sensitization: No sensitizing effects known.
  - Additional toxicological information:
  - The product shows the following dangers according to internally approved calculation methods for preparations:
  - Irritant

**12 Ecological information**

- 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.
- Additional ecological information:
- General notes:
- Water hazard class 3 (Self-assessment): extremely hazardous for water
- Do not allow product to reach ground water, water course or sewage system, even in small quantities.
- Danger to drinking water if even extremely small quantities leak into the ground.

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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.

**14 Transport information**

- UN-Number	UN1950
- DOT, ADR, IMDG, IATA	
- UN proper shipping name	AEROSOLS, flammable
- DOT, IATA	1950 AEROSOLS
- ADR	AEROSOLS
- IMDG	
- Transport hazard class(es)	
- DOT, IMDG, IATA	
- Class	2.1
- Label	2.1
- ADR	
- Class	2 SF Gases
- Label	2.1
- Packing group	
- DOT, ADR, IMDG, IATA	Void
- Environmental hazards:	
- Marine pollutant:	No
- Special precautions for user	Warning: Gases
- Danger code (Kemler):	-
- EMS Number:	F-D,S-U
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
- UN "Model Regulation":	UN1950, AEROSOLS. 2.1

**15 Regulatory information**

- Sara	
- Section 355 (extremely hazardous substances):	None of the ingredient is listed.
- Section 313 (Specific toxic chemical listings):	
1330-20-7	xylene
100-41-4	ethylbenzene
- TSCA (Toxic Substances Control Act):	
67-64-1	acetone
106-97-8	butane
74-98-6	propane
13463-67-7	titanium dioxide

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108-65-6	2-methoxy-1-methylethyl acetate
100-41-4	ethylbenzene
64742-95-6	Solvent naphtha (petroleum), light arom.
64742-48-9	Naphtha (petroleum), hydrotreated heavy
96-29-7	2-butanone oxime
68551-41-7	Fettsäuren C6-C19 verzweigt, Calciumsalze
22464-99-9	Zirkonium 2-ethylhexanoat
68409-81-4	cobalt carboxylate
112-34-5	2-(2-butoxyethoxy)ethanol

· Proposition 65

· Chemicals known to cause cancer:

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	I
1330-20-7	xylene	I
100-41-4	ethylbenzene	D

· IARC (International Agency for Research on Cancer)

1330-20-7	xylene	3
13463-67-7	titanium dioxide	2B
100-41-4	ethylbenzene	2B

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

67-64-1	acetone	A4
1330-20-7	xylene	A4
13463-67-7	titanium dioxide	A4
100-41-4	ethylbenzene	A3

· MAK (German Maximum Workplace Concentration)

13463-67-7	titanium dioxide	3A
100-41-4	ethylbenzene	3A
96-29-7	2-butanone oxime	2

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

13463-67-7	titanium dioxide
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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Product related hazard informations:

· Hazard symbols:

Xi Irritant

F+ Extremely flammable

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- **Risk phrases:**  
Extremely flammable.  
Irritating to eyes.  
Vapours may cause drowsiness and dizziness.
- **Safety phrases:**  
Keep out of the reach of children.  
Keep away from sources of ignition - No smoking.  
Do not breathe aerosol.  
Avoid contact with skin and eyes.  
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
If swallowed, seek medical advice immediately and show this container or label.  
Use only in well-ventilated areas.
- **Special labeling of certain preparations:**  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.  
Do not spray on a naked flame or any incandescent material.  
Buildup of explosive mixtures possible without sufficient ventilation.

**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.*

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

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