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Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/15/2010

Reviewed on 12/15/2010

1 Identification of substance

· **Product details**

- **Trade name:** Montana Black Spray Paint 400ml all colors + silver, gold and copper-chrome
- **Article number:** 263453 - 264436, 264757 / 264764, 265372, 272073 / 272080, 289941, 289965, 295607
- **Application of the substance / the preparation** Lacquer

· **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 information:**

Tel.: +49 6266-75-310
 Fax +49 6266-75-362

(Mo - Do 08:00 - 16:00 Uhr, Fr 08:00 - 12:30 Uhr)

01429-all codes except: -1026

-1106 -1266 -1286 -2026 -2027

-2035 -2046 -2226 -3016 -3156

-4916 -5236 -5356 -6416 -7376

-9016 -9316 -9327

2 Composition/Data on components

· **Chemical characterization**

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

· **Dangerous components:**

1330-20-7	xylene Xn, Xi; R 10-20/21-38 Warning: Flame 2.6/3; Exclamation mark 3.1.D/4, 3.1.I/4, 3.2/2	10-25%
67-64-1	acetone Xi, F; R 11-36-66-67 Danger: Flame 2.6/2 Warning: Exclamation mark 3.3/2A, 3.8/3	10-25%
106-97-8	butane (containing < 0.1 % butadiene (203-450-8)) F+; R 12 Danger: Flame 2.2/1 Warning: Gas cylinder 2.5/C	10-25%
74-98-6	propane F+; R 12 Danger: Flame 2.2/1 Warning: Gas cylinder 2.5/C	10-25%
108-65-6	2-methoxy-1-methylethyl acetate R 10 Warning: Flame 2.6/3; Exclamation mark 3.3/2A	2.5-<5.0%
100-41-4	ethylbenzene Xn, F; R 11-20 Danger: Flame 2.6/2 Warning: Exclamation mark 3.1.I/4	≤ 2.5%
64742-95-6	Solvent naphtha (petroleum), light arom. Xn, Xi, N; R 10-37-51/53-65-66-67 Danger: Health hazard 3.6/1B, 3.10/1	≤ 2.5%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

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3 Hazards identification

Hazard description:



Xn Harmful
F+ Extremely flammable

Information pertaining to particular dangers for man and environment:

The product has to be labelled due to the calculation procedure of international guidelines.

Warning! Pressurized container.

Extremely flammable.

Harmful by inhalation and in contact with skin.

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:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

NFPA ratings (scale 0 - 4)



Health = 2
Fire = 4
Reactivity = 3

HMSI-ratings (scale 0 - 4)



Health = 2
Fire = 4
Reactivity = 3

4 First aid measures

General information:

Symptoms of poisoning may even occur after several hours: therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

5 Fire fighting measures

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection: Do not allow product to reach sewage system or any water course.

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- **Measures for cleaning/collecting:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information 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:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

* 8 Exposure controls and 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:**

1330-20-7 xylene	
PEL	435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI
67-64-1 acetone	
PEL	2400 mg/m ³ , 1000 ppm
REL	590 mg/m ³ , 250 ppm
TLV	Short-term value: 1782 mg/m ³ , 750 ppm Long-term value: 1188 mg/m ³ , 500 ppm BEI
106-97-8 butane (containing < 0.1 % butadiene (203-450-8))	
REL	1900 mg/m ³ , 800 ppm
TLV	Varies mg/m ³ , 1000 ppm
74-98-6 propane	
PEL	1800 mg/m ³ , 1000 ppm
REL	1800 mg/m ³ , 1000 ppm
TLV	Varies mg/m ³ , 1000 ppm
108-65-6 2-methoxy-1-methylethyl acetate	
WEEL	50 ppm

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100-41-4 ethylbenzene

PEL	435 mg/m ³ , 100 ppm
REL	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Short-term value: 543 mg/m ³ , 125 ppm Long-term value: (434) NIC-217 mg/m ³ , (100) NIC-50 ppm BEI, NIC-A3

- **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.
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:**
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:**



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

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.
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· 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:	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
VOC-USA	50.7 %
	638.8 g/l / 5.33 lb/gl
VOC-EU	671.2 g/l

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Materials to be avoided:
- Dangerous reactions No dangerous reactions known.
- Dangerous products of decomposition: No dangerous decomposition products known.

11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

67-64-1 acetone

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

· 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 shows the following dangers according to internally approved calculation methods for preparations:
Harmful

12 Ecological information

· Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.

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Danger to drinking water if even small quantities leak into the ground.

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13 Disposal considerations

- **Product:**
- **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.*
- **Recommended cleansing agent:** *Water, if necessary with cleansing agents.*

14 Transport information

· **DOT regulations:**



- **Hazard class:** 2.1
- **Identification number:** UN1950
- **Packing group:** -
- **Proper shipping name (technical name):** AEROSOLS, flammable
- **Label:** 2.1

· **Land transport ADR/RID (cross-border):**



- **ADR/RID class:** 2 - SF Gases
- **Danger code (Kemler):** -
- **UN-Number:** 1950
- **Packaging group:** -
- **Description of goods:** 1950 AEROSOLS

· **Maritime transport IMDG:**



- **IMDG Class:** 2.1
- **UN Number:** 1950
- **Label:** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Proper shipping name:** AEROSOLS

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950

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- Label 2.1
- Packaging group: -
- Proper shipping name: AEROSOLS, flammable
- UN "Model Regulation": UN1950, AEROSOLS, 2.1

15 Regulations

· 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 (containing < 0,1 % butadiene (203-450-8))

74-98-6 propane

13463-67-7 titanium dioxide

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

100-41-4 ethylbenzene

1345-05-7 Zinksulfid-Barium-Mischsalz

64742-95-6 Solvent naphtha (petroleum), light arom.

7631-86-9 silicon dioxide, chemically prepared

96-29-7 2-butanone oxime

64742-48-9 Naphtha (petroleum), hydrotreated heavy

14808-60-7 Quartz (SiO₂)

· 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)

1330-20-7 xylene I

67-64-1 acetone 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

7631-86-9 silicon dioxide, chemically prepared 3

14808-60-7 Quartz (SiO₂) 1

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- NTP (National Toxicology Program)		
14808-60-7	Quartz (SiO ₂)	K
- TLV (Threshold Limit Value established by ACGIH)		
1330-20-7	xylene	A4
67-64-1	acetone	A4
13463-67-7	titanium dioxide	A4
100-41-4	ethylbenzene	A3
14808-60-7	Quartz (SiO ₂)	A2
- MAK (German Maximum Workplace Concentration)		
13463-67-7	titanium dioxide	3A
100-41-4	ethylbenzene	3A
96-29-7	2-butanone oxime	2
14808-60-7	Quartz (SiO ₂)	1
- NIOSH-Ca (National Institute for Occupational Safety and Health)		
13463-67-7	titanium dioxide	
14808-60-7	Quartz (SiO ₂)	
- OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

- Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

- Hazard symbols:

Xn Harmful
F+ Extremely flammable

- Hazard-determining components of labelling:
xylene**- Risk phrases:**

Extremely flammable.
Harmful by inhalation and in contact with skin.

- Safety phrases:

Keep out of the reach of children.
Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
Wear suitable protective clothing and gloves.
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

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· 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

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

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)

LCS0: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

· * Data compared to the previous version altered. SDB - Änderung gültig ab Abfüllung am

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