

1 Identification

- **Product identifier**
- **Trade name:** Montana WHITE all colours
- **Article number:** 280030 - 280429, 344237 - 344336
- **Relevant identified uses of the substance or mixture and uses advised against --**
- **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.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.
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-determining components of labeling:**
xylene, mixture of isomers
ethylbenzene
- **Hazard statements**
Extremely flammable aerosol. Pressurized container: May burst if heated.
Harmful in contact with skin or if inhaled.
Causes skin irritation.
Causes serious eye irritation.
- **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.
Use only outdoors or in a well-ventilated area.
Wear protective gloves.
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 = 3
Reactivity = 3

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- **HMIS-ratings (scale 0 - 4)**
- Health = 1
- Fire = 3
- 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.

- **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	12.5-<20%
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	12.5-<20%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 RTECS: ZE 2100000 Reg.nr.: 01-2119488216-32	xylene, mixture of isomers Xn R20/21; Xi R38 R10	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	10-<12.5%
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: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 RTECS: DA 0700000 Reg.nr.: 01-2119489370-35	ethylbenzene Xn R20; F R11	<2.5%
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%
CAS: 64742-95-6 EINECS: 265-199-0 Index number: 649-356-00-4 Reg.nr.: 01-2119455851-35	Solvent naphtha (petroleum), light arom. Xn R65; Xi R37; N R51/53 R10-66-67	≤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), 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:**
CO2, 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:**
Do not gas tight seal receptacle.
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 ³ , 1000 ppm
REL ()	Long-term value: 590 mg/m ³ , 250 ppm
TLV ()	Short-term value: (1782) NIC-1187 mg/m ³ , (750) NIC-500 ppm Long-term value: (1188) NIC-594 mg/m ³ , (500) NIC-250 ppm BEI

74-98-6 propane

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

1330-20-7 xylene, mixture of isomers

PEL ()	Long-term value: 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

106-97-8 butane

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

75-28-5 isobutane

TLV ()	Short-term value: 2370 mg/m ³ , 1000 ppm
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100-41-4 ethylbenzene

PEL ()	Long-term value: 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 ()	Long-term value: 87 mg/m ³ , 20 ppm BEI

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

WEEL ()	Long-term value: 50 ppm
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· **Ingredients with biological limit values:****67-64-1 acetone**

BEI ()	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
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1330-20-7 xylene, mixture of isomers

BEI () 1.5 g/g creatinine
 Medium: urine
 Time: end of shift
 Parameter: Methylhippuric acids

100-41-4 ethylbenzene

BEI () 0.7 g/g creatinine
 Medium: urine
 Time: end of shift at end of workweek
 Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)

-
 Medium: end-exhaled air
 Time: not critical
 Parameter: Ethyl benzene (semi-quantitative)

· **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:**

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** 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:****Form:** Aerosol**Color:** According to product specification· **Odor:** Characteristic· **Odour threshold:** Not determined.

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· pH-value:	Not determined.
· 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:	365 °C (689 °F)
· Decomposition temperature:	Not determined.
· 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 ³ (6.926 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not determined.
· 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:	
VOC-USA	41.6 %
	462.6 g/l / 3.86 lb/gl
· Other information	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:**

· **LD/LC50 values that are relevant for classification:**

67-64-1 acetone

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

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1330-20-7 xylene, mixture of isomers

Oral	LD50	8700 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	6350 mg/l (rat)

- **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
Vapors have narcotic effect.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

1330-20-7	xylene, mixture of isomers	3
13463-67-7	titanium dioxide	2B
100-41-4	ethylbenzene	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:**

1330-20-7 xylene, mixture of isomers

EC50 (24h)	>175 mg/l (bacteria)
EC50 / 48h	3.82 mg/l (daphnia magna / Wasserfloh)
EC50/72h	4.7 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	7.6 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 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.
- **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.

14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN1950
- **UN proper shipping name**
- **DOT** Aerosols, flammable
- **ADR** UN1950 Aerosols
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable
- **Transport hazard class(es)**
- **DOT, IMDG, IATA**
- **Class** 2.1
- **Label** 2.1
-
- **ADR**
- **Class** 2 5F 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.
- **Transport/Additional information:**
-
- **ADR**
- **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity
-
- **IMDG**
- **Limited quantities (LQ)** 1L
- **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity
- **UN "Model Regulation":** UN1950, Aerosols, 2.1

15 Regulatory information

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

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MSDS for #01430 - MONTANA WHITE SYN

Printing date 08/06/2014

Reviewed on 08/06/2014

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· Sara

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

1330-20-7 xylene, mixture of isomers

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

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, Calziumsalsze

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, mixture of isomers

I

100-41-4 ethylbenzene

D

· TLV (Threshold Limit Value established by ACGIH)

67-64-1 acetone

A4

1330-20-7 xylene, mixture of isomers

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

· GHS label elements

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

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- **Hazard pictograms** GHS02, GHS07
- **Signal word** Danger
- **Hazard-determining components of labeling:**
xylene, mixture of isomers
ethylbenzene
- **Hazard statements**
Extremely flammable aerosol. Pressurized container: May burst if heated.
Harmful in contact with skin or if inhaled.
Causes skin irritation.
Causes serious eye irritation.
- **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.
Use only outdoors or in a well-ventilated area.
Wear protective gloves.
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.
R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
R36 Irritating to eyes.
R37 Irritating to respiratory system.
R38 Irritating to skin.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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** 08/06/2014 / 9
- **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 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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Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

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USA