

Safety Data Sheet acc. to OSHA HCS

Printing date 01/19/2023

Reviewed on 01/17/2023

1 Identification

- **Product identifier**
- **Trade name:** MONTANA US BLACK Goldchrome
- **Article number:** 295607-US
- **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

Toxic to Reproduction 2

H361 Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Repeated Exposure 2

H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

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).

(Contd. on page 2)

US

Trade name: MONTANA US BLACK Goldchrome

(Contd. of page 1)

· **Hazard pictograms**



· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

toluene
acetone

· **Hazard statements**

H222 Extremely flammable aerosol.
H280 Contains gas under pressure; may explode if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H361 Suspected of damaging fertility or the unborn child.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.

· **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)**



· **HMIS-ratings (scale 0 - 4)**



· **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.
















(Contd. on page 3)

US

Trade name: MONTANA US BLACK Goldchrome

(Contd. of page 2)

· Dangerous components:

CAS: 108-88-3 EINECS: 203-625-9 Index number: 601-021-00-3	toluene  Flammable Liquids 2, H225  Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304  Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336	20-<25%
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	12.5-<20%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane  Flammable Gases 1, H220  Gases under Pressure - Compressed gas, H280	12.5-<20%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane (containing < 0,1 % butadiene (203-450-8))  Flammable Gases 1, H220  Gases under Pressure - Compressed gas, H280	10-<12.5%
CAS: 108-90-7 EINECS: 203-628-5 Index number: 602-033-00-1	chlorobenzene  Flammable Liquids 3, H226  Acute Toxicity - Inhalation 4, H332; Skin Irritation 2, H315	5-<10%
CAS: 616-38-6 EINECS: 210-478-4 Index number: 607-013-00-6	dimethyl carbonate  Flammable Liquids 2, H225	5-<10%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0	isobutane (containing < 0,1 % butadiene (203-450-8))  Flammable Gases 1, H220  Gases under Pressure - Compressed gas, H280	2.5-<5%
CAS: 7440-50-8 EINECS: 231-159-6	copper  Acute Toxicity - Oral 3, H301	2.5-<5%
CAS: 4431-83-8 EINECS: 224-631-8	2,5,7,10 -Tetraoxaundecane Flammable Liquids 4, H227	<2.5%

4 First-aid measures**· Description of 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:** In case of unconsciousness place patient stably in side position for transportation.

· **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.

(Contd. on page 4)

US

Trade name: MONTANA US BLACK Goldchrome

(Contd. of page 3)

- **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.
- **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:**

108-88-3	toluene	67 ppm
67-64-1	acetone	200 ppm
74-98-6	propane	5500* ppm
106-97-8	butane (containing < 0,1 % butadiene (203-450-8))	5500* ppm
108-90-7	chlorobenzene	10 ppm
616-38-6	dimethyl carbonate	11 ppm
75-28-5	isobutane (containing < 0,1 % butadiene (203-450-8))	5500* ppm
7440-50-8	copper	3 mg/m ³
7440-66-6	zinc powder -zinc dust (stabilized)	6 mg/m ³
64742-48-9	Naphtha (petroleum), hydrotreated heavy	350 mg/m ³

· **PAC-2:**

108-88-3	toluene	560 ppm
67-64-1	acetone	3200* ppm
74-98-6	propane	17000** ppm
106-97-8	butane (containing < 0,1 % butadiene (203-450-8))	17000** ppm
108-90-7	chlorobenzene	150 ppm
616-38-6	dimethyl carbonate	120 ppm
75-28-5	isobutane (containing < 0,1 % butadiene (203-450-8))	17000** ppm
7440-50-8	copper	33 mg/m ³
7440-66-6	zinc powder -zinc dust (stabilized)	21 mg/m ³
64742-48-9	Naphtha (petroleum), hydrotreated heavy	1,800 mg/m ³

· **PAC-3:**

108-88-3	toluene	3700* ppm
67-64-1	acetone	5700* ppm
74-98-6	propane	33000*** ppm
106-97-8	butane (containing < 0,1 % butadiene (203-450-8))	53000*** ppm
108-90-7	chlorobenzene	400 ppm
616-38-6	dimethyl carbonate	700 ppm
75-28-5	isobutane (containing < 0,1 % butadiene (203-450-8))	53000*** ppm

(Contd. on page 5)

US

Trade name: MONTANA US BLACK Goldchrome

		(Contd. of page 4)
7440-50-8	copper	200 mg/m ³
7440-66-6	zinc powder -zinc dust (stabilized)	120 mg/m ³
64742-48-9	Naphtha (petroleum), hydrotreated heavy	40,000 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.
- **Storage class:** 2 B
- **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:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

108-88-3 toluene

PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV	Long-term value: 20 ppm BEI, OTO, A4

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: 500 ppm Long-term value: 250 ppm A4, 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	see Appendix F Minimal oxygen content (D, EX)

106-97-8 butane (containing < 0,1 % butadiene (203-450-8))

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

(Contd. on page 6)

US

Trade name: MONTANA US BLACK Goldchrome

(Contd. of page 5)

108-90-7 chlorobenzene

PEL Long-term value: 350 mg/m³, 75 ppm

TLV Long-term value: 10 ppm
BEI, A3

75-28-5 isobutane (containing < 0,1 % butadiene (203-450-8))

TLV Short-term value: 1000 ppm
(EX)

· Ingredients with biological limit values:**108-88-3 toluene**

BEI 0.02 mg/L
Medium: blood
Time: prior to last shift of workweek
Parameter: Toluene

0.03 mg/L
Medium: urine
Time: end of shift
Parameter: Toluene

0.3 mg/g creatinine
Medium: urine
Time: end of shift
Parameter: o-Cresol with hydrolysis (background)

67-64-1 acetone

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

108-90-7 chlorobenzene

BEI 100 mg/g creatinine
Medium: urine
Time: end of shift at end of workweek
Parameter: 4-Chlorocatechol (with hydrolysis, nonspecific)

20 mg/g creatinine
Medium: urine
Time: end of shift at end of workweek
Parameter: p-Chlorophenol (with hydrolysis, 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.
Store protective clothing separately.
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.

(Contd. on page 7)

US

Trade name: MONTANA US BLACK Goldchrome

(Contd. of page 6)

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: 365 °C (689 °F)

Decomposition temperature: Not determined.

Danger of explosion: Not determined.

Explosion limits:

- Lower:** 1.2 Vol %
- Upper:** 13 Vol %

Vapor pressure at 20 °C (68 °F): 8300 hPa (6225.5 mm Hg)

Density at 20 °C (68 °F): 0.8 g/cm³ (6.7 lbs/gal)

Relative density: Not determined.

Vapor density: Not determined.

(Contd. on page 8)

US

Trade name: MONTANA US BLACK Goldchrome

(Contd. of page 7)

· 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:	81.0 %
VOC content:	595.0 g/l / 4.97 lb/gal
Solids content:	19.0 %
· 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)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **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

- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
108-88-3	toluene	3

- **NTP (National Toxicology Program)**
None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed.		
--	--	--

(Contd. on page 9)

Trade name: MONTANA US BLACK Goldchrome

(Contd. of page 8)

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

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))

- **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.

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.

14 Transport information


- **UN-Number**
- **DOT, IMDG, IATA** UN1950
- **UN proper shipping name**
- **DOT** Aerosols, flammable
- **IMDG** AEROSOLS, MARINE POLLUTANT
- **IATA** AEROSOLS, flammable
- **Transport hazard class(es)**
- **DOT**
- 
- **Class** 2.1 Gases

(Contd. on page 10)

US

Trade name: MONTANA US BLACK Goldchrome

(Contd. of page 9)

· Label	2.1
· IMDG, IATA	
	
· Class	2.1 Gases
· Label	2.1
· Packing group	
· DOT, IMDG, IATA	not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Gases
· Hazard identification number (Kemler code):	-
· EMS Number:	F-D,S-U
· Segregation groups	(SGG10) Liquid halogenated hydrocarbons
· Stowage Code	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)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

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):	
108-88-3	toluene
108-90-7	chlorobenzene

(Contd. on page 11)

US

Trade name: MONTANA US BLACK Goldchrome

(Contd. of page 10)

7440-50-8	copper	
7440-66-6	zinc powder -zinc dust (stabilized)	
· TSCA (Toxic Substances Control Act):		
All components have the value ACTIVE.		
· Hazardous Air Pollutants		
108-88-3	toluene	
108-90-7	chlorobenzene	
· 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:		
108-88-3	toluene	
· Carcinogenic categories		
· EPA (Environmental Protection Agency)		
108-88-3	toluene	II
67-64-1	acetone	I
108-90-7	chlorobenzene	D
7440-50-8	copper	D
7440-66-6	zinc powder -zinc dust (stabilized)	D, I, II
· TLV (Threshold Limit Value)		
108-88-3	toluene	A4
67-64-1	acetone	A4
108-90-7	chlorobenzene	A3
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
· 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.
- H227 Combustible liquid.
- H280 Contains gas under pressure; may explode if heated.
- H301 Toxic if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.

(Contd. on page 12)

US

Trade name: MONTANA US BLACK Goldchrome

(Contd. of page 11)

- **Contact:**
- **Date of preparation / last revision** 01/19/2023
- **Abbreviations and acronyms:**
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
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
Flammable Liquids 4: Flammable liquids – Category 4
Acute Toxicity - Oral 3: Acute toxicity – Category 3
Acute Toxicity - Inhalation 4: Acute toxicity – Category 4
Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Toxic to Reproduction 2: Reproductive toxicity – Category 2
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2
Aspiration Hazard 1: Aspiration hazard – Category 1

US