

Safety data sheet

According to 91/155 EEC

Printing date 06.01.2014

Version number 1

Revision: 06.01.2014

Hazardous according to criteria of Australian Safety and Compensation Council


















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

- **Product identifier**
- **Trade name:** MONTANA NightGlow
- **Article number:** NG1000, 376245
- **Application of the substance / the mixture** 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
- **Further information obtainable from:** 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 Composition/information on ingredients

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

· **Dangerous components:**

74-98-6	propane  F+ R12	12.5-<20%
123-86-4	n-butyl acetate R10-66-67	12.5-<20%
106-97-8	butane  F+ R12	12.5-<20%
67-64-1	acetone  Xi R36;  F R11 R66-67	5-<10%
108-65-6	2-methoxy-1-methylethyl acetate R10	5-<10%
75-28-5	isobutane  F+ R12	5-<10%
68920-06-9	Kohlenwasserstoffe, C7-9  Xn R65;  F R11;  N R51/53 R66-67	2.5-<5.0%
92128-66-0	Kohlenwasserstoffe, C6-7  Xn R65;  Xi R38;  N R51/53 R67	2.5-<5.0%
110-82-7	cyclohexane  Xn R65;  Xi R38;  F R11;  N R50/53 R67	2.5-<5.0%
71-36-3	butan-1-ol  Xn R22;  Xi R37/38-41 R10-67	<2.5%

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110-54-3	<i>n</i> -hexane  Xn R48/20-62-65;  Xi R38;  F R11;  N R51/53 R67 Repr. Cat. 3	≤0.5%
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· **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.
For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· **Classification of the substance or mixture**

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



F+; Extremely flammable

R12: Extremely flammable.

R52/53-66-67: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **Label elements**

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**



F+ Extremely flammable

· **Risk phrases:**

12 Extremely flammable.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

· **Special labelling of certain preparations:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C (e.g. in the car). 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 in accordance with Directive 75/324/EEC: Extremely flammable**

· **Information concerning particular hazards for human and environment:**

· **Safety phrases:**

2 Keep out of the reach of children.

16 Keep away from sources of ignition - No smoking.

23 Do not breathe spray.

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24/25 Avoid contact with skin and eyes.

29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

46 If swallowed, seek medical advice immediately and show this container or label.

51 Use only in well-ventilated areas.

* 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. Then consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

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.
- **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

- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**
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 seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

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- **Storage class:** 2B
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

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

74-98-6 propane

NES () Asphyxiant

123-86-4 n-butyl acetate

NES () Short-term value: 950 mg/m³, 200 ppm
Long-term value: 713 mg/m³, 150 ppm

106-97-8 butane

NES () Long-term value: 1900 mg/m³, 800 ppm

67-64-1 acetone

NES () Short-term value: 2375 mg/m³, 1000 ppm
Long-term value: 1185 mg/m³, 500 ppm

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

NES () Short-term value: 548 mg/m³, 100 ppm
Long-term value: 274 mg/m³, 50 ppm
Sk

110-82-7 cyclohexane

NES () Short-term value: 1050 mg/m³, 300 ppm
Long-term value: 350 mg/m³, 100 ppm

71-36-3 butan-1-ol

NES () Long-term value: 152* mg/m³, 50* ppm
Sk; *Peak limitation

- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

- **Respiratory protection:**

Not necessary if room is well-ventilated.

Otherwise, filter class A / P2 or self contained.

- **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**

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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

· General Information

· Appearance:

Form: Aerosol
 Colour: According to product specification

· Odour: Characteristic

· Odour threshold: Not determined.

· 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.

· Decomposition temperature: Not determined.

· Self-igniting: Product is not selfigniting.

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

· Explosion limits:

Lower: 1.2 Vol %

Upper: 10.9 Vol %

· Vapour pressure at 20 °C: 8300 hPa

· Density at 20 °C: 0.76 g/cm³

· 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-(EU) ---

577.2 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.

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· **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

· **Acute toxicity:**

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

110-82-7 cyclohexane

Oral	LD50	12705 mg/kg (rat)
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· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:** Vapours have narcotic effect.

12 Ecological information

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

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

Harmful to aquatic organisms

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
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15 01 04	metallic packaging
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15 01 11*	metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers
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· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**

· **ADG, IMDG, IATA**

UN1950

· **UN proper shipping name**

· **ADG**

UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS

· **IMDG**

AEROSOLS

· **IATA**

AEROSOLS, flammable

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· **Transport hazard class(es)**· **ADG**· **Class** 2 5F Gases.· **Label** 2.1· **IMDG, IATA**· **Class** 2.1· **Label** 2.1· **Packing group**· **ADG, IMDG, IATA** Void· **Environmental hazards:**· **Marine pollutant:** No· **Special marking (ADG):** Symbol (fish and tree)· **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:**· **ADG**· **Limited quantities (LQ)** 1L· **Transport category** 2· **Tunnel restriction code** D

15 Regulatory information

· **Australian Inventory of Chemical Substances**

74-98-6	propane
123-86-4	n-butyl acetate
106-97-8	butane
68611-70-1	Zinc sulfide (ZnS), copper chloride-doped
67-64-1	acetone
108-65-6	2-methoxy-1-methylethyl acetate
75-28-5	isobutane
68920-06-9	Kohlenwasserstoffe, C7-9
71-36-3	butan-1-ol
110-54-3	n-hexane
64742-95-6	Solvent naphtha (petroleum), light arom.
147900-93-4	fatty acids
70657-70-4	2-methoxypropyl acetate

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7447-41-8 lithium chloride

· Standard for the Uniform Scheduling of Drugs and Poisons

67-64-1 acetone

S5

· Code letter and hazard designation of product:**F+ Extremely flammable****· Risk phrases:**

- 12 Extremely flammable.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· Safety phrases:

- 2 Keep out of the reach of children.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe spray.
- 24/25 Avoid contact with skin and eyes.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 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 (e.g. in the car). 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 in accordance with Directive 75/324/EEC: Extremely flammable**· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.**

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.
- R22 Harmful if swallowed.
- R36 Irritating to eyes.
- R37/38 Irritating to respiratory system and skin.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R62 Possible risk of impaired fertility.
- R65 Harmfull: may cause lung damage if swallowed
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

· Contact: Anwendungstechnik**· 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)

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*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**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)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent*

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