

Safety Data Sheet acc. to OSHA HCS

Date of issue: 12/03/2025

Reviewed on 08/08/2025

1 Identification

- **Product identifier**
- **Trade name:** MONTANA METALLIC
- **Other means of identification**
- **Article number:**
448683, 448690, 448706, 448713, 448720, 448737, 448744, 448751, 448768, 473043, 473050, 473067, EMC1050, EMC2010, EMC2050, EMC5030, EMC6210, EMC6250, EMC7010, EMC7060, EMC9000, EMC3020, EMC3110, EMC4230, 494130, EMC1010, 494123, EMC1030, 494116, EMC6040
- **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

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

Carcinogenicity 1A

H350 May cause cancer.



GHS07

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).

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· **Hazard pictograms**

GHS02 GHS04 GHS07 GHS08

· **Signal word** *Danger*· **Hazard-determining components of labeling:**

acetone
 ethanol
 n-butyl acetate
 Carbon black

· **Hazard statements**

H222 Extremely flammable aerosol.
 H280 Contains gas under pressure; may explode if heated.
 H319 Causes serious eye irritation.
 H350 May cause cancer.
 H336 May cause drowsiness or dizziness.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Do not pierce or burn, even after use.
 P260 Do not breathe spray.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 122 °F (50 °C).
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Information pertaining to particular dangers for man and environment:**· **Classification system:**· **NFPA ratings (scale 0 - 4)**

Health = 2
 Fire = 4
 Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = *2
 Fire = 4
 Reactivity = 3

· **Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **Classification according to (d)(1)(ii) of § 1910.1200**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

· **Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

*

3 Composition/information on ingredients· **Chemical characterization: Mixtures**· **Description:** Mixture of the substances listed below with nonhazardous additions.

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Dangerous components:

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	15-40%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1	n-butyl acetate ⚠ Flammable liquids 3, H226 ⚠ Specific target organ toxicity (single exposure) 3, H336	10-30%
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	7-13%
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	5-10%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7	2-methoxy-1-methylethyl acetate ⚠ Flammable liquids 3, H226 ⚠ Specific target organ toxicity (single exposure) 3, H336	3-7%
CAS: 9004-70-0	cellulose nitrate ⚠ Explosives 1.1, H201	1-5%
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	1-5%
CAS: 1330-20-7 EC number: 905-588-0 Index number: 601-022-00-9	reaction mass of ethylbenzene and xylene ⚠ Flammable liquids 3, H226 ⚠ Acute toxicity - dermal 4, H312; Acute toxicity - inhalation 4, H332; Skin irritation 2, H315	1-5%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5	ethanol ⚠ Flammable liquids 2, H225 ⚠ Carcinogenicity 1A, H350 ⚠ Eye irritation 2A, H319	1-5%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2	titanium dioxide	0.5-1.5%
CAS: 1333-86-4 EINECS: 215-609-9	Carbon black ⚠ Carcinogenicity 2, H351	0.1-1%

Additional information:

Xylol: Enthält Ethylbenzol CAS 100-41-4
CAS 9004-70-0: CLP Note T

4 First-aid measures

Description of first aid measures

- **General information:** Take affected persons out into the fresh air.
- **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.
- **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.

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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.
- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters -**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
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 section 13.
Ensure adequate ventilation.
- **Protective Action Criteria for Chemicals**

• PAC-1:

67-64-1	acetone	200 ppm
123-86-4	n-butyl acetate	5 ppm
74-98-6	propane	5500 ppm
106-97-8	butane (containing < 0,1 % butadiene (203-450-8))	5500 ppm
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
75-28-5	isobutane (containing < 0,1 % butadiene (203-450-8))	5500 ppm
1330-20-7	reaction mass of ethylbenzene and xylene	130 ppm
64-17-5	ethanol	1,800 ppm
13463-67-7	titanium dioxide	30 mg/m ³
1333-86-4	Carbon black	9 mg/m ³
103-23-1	Di-(2-ethylhexyl) adipate	17 mg/m ³
12001-26-2	Mica	9 mg/m ³
64742-48-9	Naphtha (petroleum), hydrotreated heavy	350 mg/m ³
67-63-0	propan-2-ol	400 ppm
1309-37-1	diiron trioxide	15 mg/m ³
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, aromatics (<2%)	350 mg/m ³
18282-10-5	tin dioxide	7.6 mg/m ³
70657-70-4	2-methoxypropyl acetate	50 ppm
71-36-3	butan-1-ol	60 ppm
112945-52-5	Silicon dioxide	18 mg/m ³
100-42-5	styrene	20 ppm
112-53-8	Lauryl alcohol	12 mg/m ³
111-66-0	oct-1-ene	40 ppm
111-42-2	2,2'-iminodiethanol	3 mg/m ³

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14808-60-7	Quartz (SiO ₂)	(Contd. of page 4) 0.075 mg/m ³
· PAC-2:		
67-64-1	acetone	3200* ppm
123-86-4	n-butyl acetate	200 ppm
74-98-6	propane	17000 ppm
106-97-8	butane (containing < 0,1 % butadiene (203-450-8))	17000 ppm
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
75-28-5	isobutane (containing < 0,1 % butadiene (203-450-8))	17000 ppm
1330-20-7	reaction mass of ethylbenzene and xylene	920* ppm
64-17-5	ethanol	3300* ppm
13463-67-7	titanium dioxide	330 mg/m ³
1333-86-4	Carbon black	290 mg/m ³
103-23-1	Di-(2-ethylhexyl) adipate	300 mg/m ³
12001-26-2	Mica	99 mg/m ³
64742-48-9	Naphtha (petroleum), hydrotreated heavy	1,800 mg/m ³
67-63-0	propan-2-ol	2000* ppm
1309-37-1	diiron trioxide	360 mg/m ³
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, aromatics (<2%)	1,800 mg/m ³
18282-10-5	tin dioxide	85 mg/m ³
70657-70-4	2-methoxypropyl acetate	1,000 ppm
71-36-3	butan-1-ol	800 ppm
112945-52-5	Silicon dioxide	100 mg/m ³
100-42-5	styrene	130 ppm
112-53-8	Lauryl alcohol	140 mg/m ³
111-66-0	oct-1-ene	800* ppm
111-42-2	2,2'-iminodiethanol	28 mg/m ³
14808-60-7	Quartz (SiO ₂)	8.3 mg/m ³

· PAC-3:		
67-64-1	acetone	5700* ppm
123-86-4	n-butyl acetate	3000* ppm
74-98-6	propane	33000 ppm
106-97-8	butane (containing < 0,1 % butadiene (203-450-8))	53000 ppm
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
75-28-5	isobutane (containing < 0,1 % butadiene (203-450-8))	53000 ppm
1330-20-7	reaction mass of ethylbenzene and xylene	2500* ppm
64-17-5	ethanol	15000* ppm
13463-67-7	titanium dioxide	2,000 mg/m ³
1333-86-4	Carbon black	1750 mg/m ³
103-23-1	Di-(2-ethylhexyl) adipate	1800 mg/m ³
12001-26-2	Mica	590 mg/m ³
64742-48-9	Naphtha (petroleum), hydrotreated heavy	40,000 mg/m ³
67-63-0	propan-2-ol	12000** ppm
1309-37-1	diiron trioxide	2,200 mg/m ³
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, aromatics (<2%)	40,000 mg/m ³
18282-10-5	tin dioxide	510 mg/m ³
70657-70-4	2-methoxypropyl acetate	5,000 ppm

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71-36-3	butan-1-ol	(Contd. of page 5) 8000** ppm
112945-52-5	Silicon dioxide	630 mg/m ³
100-42-5	styrene	1100 ppm
112-53-8	Lauryl alcohol	820 mg/m ³
111-66-0	oct-1-ene	2000* ppm
111-42-2	2,2'-iminodiethanol	130 mg/m ³
14808-60-7	Quartz (SiO ₂)	50 mg/m ³

- **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**

Keep away from heat and direct sunlight.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Ensure good ventilation/exhaustion at the workplace.

- **Information about protection against explosions and fires:**

Do not spray on a naked flame or any incandescent material.

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

- **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 remaining constituent has no known exposure limits.

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: 1187 mg/m ³ , 500 ppm
	Long-term value: 594 mg/m ³ , 250 ppm
	A4, BEI

123-86-4 n-butyl acetate

PEL	Long-term value: 710 mg/m ³ , 150 ppm
REL	Short-term value: 950 mg/m ³ , 200 ppm
	Long-term value: 710 mg/m ³ , 150 ppm
TLV	Short-term value: 712 mg/m ³ , 150 ppm
	Long-term value: 238 mg/m ³ , 50 ppm

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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: 2370 mg/m ³ , 1000 ppm (EX)

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

WEEL	Long-term value: 50 ppm
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75-28-5 isobutane (containing < 0,1 % butadiene (203-450-8))

TLV	Short-term value: 2370 mg/m ³ , 1000 ppm (EX)
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1330-20-7 reaction mass of ethylbenzene and xylene

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	Long-term value: 20 ppm BEI, A4

64-17-5 ethanol

PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1880 mg/m ³ , 1000 ppm A3

13463-67-7 titanium dioxide

PEL	Long-term value: 15* mg/m ³ *total dust
REL	See Pocket Guide App. A
TLV	Long-term value: 0.2* 2.5** mg/m ³ resp. fraction, *nanoscale, **finescale, A3

1333-86-4 Carbon black

PEL	Long-term value: 3.5 mg/m ³
REL	Long-term value: 3.5* mg/m ³ *0.1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m ³ *inhalable fraction, A3

· Ingredients with biological limit values:**67-64-1 acetone**

BEI	25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
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1330-20-7 reaction mass of ethylbenzene and xylene

BEI	0.3 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
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· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

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- **Personal protective equipment:**

- **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.
 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.

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

- **Body protection:** Light weight protective clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Physical state**

Aerosol

- **Color:**

According to product specification

- **Odor:**

Characteristic

- **Odor threshold:**

Not determined.

- **Melting point/Melting range:**

Undetermined.

- **Boiling point/Boiling range:**

Not applicable, as aerosol.

- **Flammability:**

Not applicable.

- **Explosion limits:**

- **Lower:**

1.2 Vol %

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• Upper:	13 Vol %
• Flash point:	Not applicable, as aerosol.
• Auto igniting:	333 °C (631.4 °F)
• Decomposition temperature:	Not determined.
• pH-value:	Mixture is non-soluble (in water).
• Viscosity:	
• Kinematic:	Not determined.
• Dynamic:	Not determined.
• Solubility in / Miscibility with	
• Water:	Not miscible or difficult to mix.
• Partition coefficient (n-octanol/water):	Not determined.
• Vapor pressure at 20 °C (68 °F):	8300 hPa (6225.5 mm Hg)
• Vapor pressure at 50 °C (122 °F):	16500 hPa (12376 mm Hg)
• Density at 20 °C (68 °F):	0.8 g/cm ³ (6.7 lbs/gal)
• Relative density	Not determined.
• Vapor density	Not determined.
• Particle characteristics	Not applicable.

• Other information	
• Appearance:	
• Form:	Aerosol
• Important information on protection of health and environment, and on safety.	
• Danger of explosion:	Not determined.
• Solvent content:	
• Organic solvents:	87.7 %
• VOC content:	620.0 g/l / 5.17 lb/gal
• Solids content:	11.5 %
• Change in condition	
• Evaporation rate	Not applicable.

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)
	LC50 / 96 h	5540 mg/l (oncorhynchus mykiss)

123-86-4 n-butyl acetate

Oral	LD50	10800 mg/kg (rat) (OECD 401)
Dermal	LD50	>17600 mg/kg (rabbit)

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Inhalative	LC50 / 4 h	>21 mg/m ³ (rat)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8530 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50 / 4 h	>10000 mg/m ³ (rat)
1330-20-7 reaction mass of ethylbenzene and xylene		
Oral	LD50	3523 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50 / 4 h	29000 mg/m ³ (rat)
64-17-5 ethanol		
Oral	LD50	10470 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50 / 4h	120 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:**

Vapors have narcotic effect.

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- **Interactive effects** No interactive effects between components are known.

- **Carcinogenic categories**

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

1330-20-7	reaction mass of ethylbenzene and xylene	3
64-17-5	ethanol	1
13463-67-7	titanium dioxide	2B
1333-86-4	Carbon black	2B
103-23-1	Di-(2-ethylhexyl) adipate	3
67-63-0	propan-2-ol	3
1309-37-1	diiron trioxide	3
100-42-5	styrene	2A
111-42-2	2,2'-iminodiethanol	2B
14808-60-7	Quartz (SiO ₂)	1

- **NTP (National Toxicology Program)**

128-69-8	perylene-3,4:9,10-tetracarboxylic dianhydride	R
100-42-5	styrene	R
14808-60-7	Quartz (SiO ₂)	K

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

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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))

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

EC50 / 48 h	>500 mg/l (daphnia magna)
LC50 / 96 h	100-180 mg/l (oncorhynchus mykiss)

1330-20-7 reaction mass of ethylbenzene and xylene

EC50 / 48 h	7.4 mg/l (daphnia magna)
LC50 / 96 h	13.5 mg/l (fish)

64-17-5 ethanol

LC50/96h	13000 mg/l (oncorhynchus mykiss)
EC50 / 48 h	12900 mg/l (algae)
LC50 / 48 h	12340 mg/l (daphnia magna)

· **Persistence and degradability** No further relevant information available.· **Bioaccumulative potential** No further relevant information available.· **Mobility in soil** No further relevant information available.· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **Other adverse effects**· **Additional ecological information:**· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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:** Dispose of packaging according to regulations on the disposal of packagings.**14 Transport information**· **UN-Number**· **DOT, IMDG, IATA**

UN1950

· **UN proper shipping name**· **DOT**

Aerosols, flammable

· **IMDG**

AEROSOLS

· **IATA**

AEROSOLS, flammable

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· **Transport hazard class(es)**· **DOT**· **Class**

2.1 Gases

· **Label**

2.1

· **IMDG, IATA**· **Class**

2.1 Gases

· **Label**

2.1

· **Packing group**· **DOT, IMDG, IATA**

not regulated

· **Environmental hazards:**

Not applicable.

· **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

· **Special precautions for user**

Warning: Gases

· **Hazard identification number (Kemler code):** -· **EMS Number:**

F-D,S-U

· **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.

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.

· **UN "Model Regulation":**

UN 1950 AEROSOLS, 2.1

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15 Regulatory information

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

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

1330-20-7 reaction mass of ethylbenzene and xylene

103-23-1 Di-(2-ethylhexyl) adipate

7429-90-5 aluminium powder (stabilised)

67-63-0 propan-2-ol

71-36-3 butan-1-ol

100-42-5 styrene

111-42-2 2,2'-iminodiethanol

· TSCA (Toxic Substances Control Act):

67-64-1 acetone

ACTIVE

123-86-4 n-butyl acetate

ACTIVE

74-98-6 propane

ACTIVE

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

ACTIVE

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

ACTIVE

9004-70-0 cellulose nitrate

ACTIVE

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

ACTIVE

68476-20-0 Fatty acids, vegetable-oil, polymers with glycerol, pentaerythritol and phthalic anhydride

INACTIVE

1330-20-7 reaction mass of ethylbenzene and xylene

ACTIVE

64-17-5 ethanol

ACTIVE

13463-67-7 titanium dioxide

ACTIVE

1333-86-4 Carbon black

ACTIVE

103-23-1 Di-(2-ethylhexyl) adipate

ACTIVE

7429-90-5 aluminium powder (stabilised)

ACTIVE

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

ACTIVE

67-63-0 propan-2-ol

ACTIVE

1309-37-1 diiron trioxide

ACTIVE

64742-95-6 Hydrocarbons, C9, aromatics

ACTIVE

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

ACTIVE

147-14-8 phthalocyanine blue

ACTIVE

64742-82-1 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

ACTIVE

51274-00-1 C.I. Pigment Yellow 42

ACTIVE

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, aromatics (<2%)

ACTIVE

6358-31-2 C.I. Pigment Yellow 74

ACTIVE

25869-00-5 Ammonium Eisen(3+) hexakis(Cyano-C)ferrat(4-)

ACTIVE

5521-31-3 C.I. Pigment Red 179

ACTIVE

1047-16-1 C.I. Pigment Violet 19

ACTIVE

31837-42-0 Pigment Yellow 151

ACTIVE

2786-76-7 C.I. Pigment red 170

ACTIVE

84632-65-5 C.I. Pigment Red 254

ACTIVE

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· Hazardous Air Pollutants

1330-20-7	reaction mass of ethylbenzene and xylene
128-69-8	perylene-3,4:9,10-tetracarboxylic dianhydride
100-42-5	styrene
111-42-2	2,2'-iminodiethanol

· Proposition 65
· Chemicals known to cause cancer:

13463-67-7	titanium dioxide
1333-86-4	Carbon black
100-42-5	styrene
111-42-2	2,2'-iminodiethanol
14808-60-7	Quartz (SiO ₂)

· 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:

64-17-5	ethanol
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· Carcinogenic categories
· EPA (Environmental Protection Agency)

67-64-1	acetone	I
1330-20-7	reaction mass of ethylbenzene and xylene	I
103-23-1	Di-(2-ethylhexyl) adipate	C
71-36-3	butan-1-ol	D

· TLV (Threshold Limit Value)

67-64-1	acetone	A4
1330-20-7	reaction mass of ethylbenzene and xylene	A4
64-17-5	ethanol	A3
13463-67-7	titanium dioxide	A4
1333-86-4	Carbon black	A4
7429-90-5	aluminium powder (stabilised)	A4
67-63-0	propan-2-ol	A4
1309-37-1	diiron trioxide	A4
100-42-5	styrene	A4
111-42-2	2,2'-iminodiethanol	A3
14808-60-7	Quartz (SiO ₂)	A2

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

13463-67-7	titanium dioxide
1333-86-4	Carbon black
14808-60-7	Quartz (SiO ₂)

· National regulations:
· Information about limitation of use:

Employment restrictions concerning young persons must be observed.

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.

Exceptions can be made by the authorities in certain cases.

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 • **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

H201 Explosive; mass explosion hazard.
 H220 Extremely flammable gas.
 H225 Highly flammable liquid and vapor.
 H226 Flammable liquid and vapor.
 H280 Contains gas under pressure; may explode if heated.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H336 May cause drowsiness or dizziness.
 H350 May cause cancer.
 H351 Suspected of causing cancer.

• Version number of previous version: 4

• Date of preparation 12/03/2025

• Abbreviations and acronyms:

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organisation
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 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
 Explosives 1.1: Explosives – Division 1.1
 Flammable Gases 1: Flammable gases – Category 1
 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
 Acute toxicity - dermal 4: Acute toxicity – Category 4
 Skin irritation 2: Skin corrosion/irritation – Category 2
 Eye irritation 2A: Serious eye damage/eye irritation – Category 2A
 Carcinogenicity 1A: Carcinogenicity – Category 1A
 Carcinogenicity 2: Carcinogenicity – Category 2
 Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3

• * Data compared to the previous version altered.

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