

Globally Harmonized System of Classification and Labelling of
Chemicals (GHS)

SILVERDREAM Lunariss

Version 2.0

Revision Date 09.12.2019

Print Date 06.08.2020

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

1.1 Product identifier

Trade name : SILVERDREAM Lunariss
Material number : 022151140

1.2 Relevant identified uses of the substance or mixture and uses advised against

This information is not available.

1.3 Details of the supplier of the safety data sheet

Company :

Telephone :
Telefax :
E-mail address : msds.eckart@altana.com
Responsible/issuing person

1.4 Emergency telephone number

NCEC:

(contract no.: ECKART29003-NCEC)

+44 1235 239671 (Middle East/Africa, call and response in your language)

+1 215 207 0061 (Americas, call and response in your language)

+65 3158 1074 (Asia-Pacific, call and response in your language)

SECTION 2: Hazards identification

GHS Classification

: Flammable liquids, Category 2, H225
Serious eye damage/eye irritation, Category 2A, H319
Specific target organ toxicity - single exposure, Category 3,

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Central nervous system, H336

GHS-Labeling

Symbol(s)



Signal word

: Danger

Hazard statements

: H225: Highly flammable liquid and vapour.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

Precautionary statements

: **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label

Identification	CAS-No.
n-butyl acetate	123-86-4
ethyl acetate	141-78-6
ethyl acetate	141-78-6
propan-2-ol	67-63-0

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SECTION 3: Composition/information on ingredients

Substance name : Versuch 83001251 Mirror Effect VP70434/G

Substance No. :

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
n-butyl acetate	123-86-4 204-658-1	Flam. Liq.;3;H226 STOT SE;3;H336	25 - 50
ethyl acetate	141-78-6 205-500-4	Flam. Liq.;2;H225 Eye Irrit.;2A;H319 STOT SE;3;H336	10 - 20
ethyl acetate	141-78-6 205-500-4	Flam. Liq.;2;H225 Eye Irrit.;2A;H319 STOT SE;3;H336	1 - 10
propan-2-ol	67-63-0 200-661-7	Flam. Liq.;2;H225 Acute Tox.;5;H303 Acute Tox.;5;H313 Eye Irrit.;2A;H319 STOT SE;3;H336	1 - 10

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: First aid measures**4.1 Description of first aid measures**

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Alcohol-resistant foam, Carbon dioxide (CO₂), Dry chemical

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Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform

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respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

This information is not available.

SECTION 7: Handling and storage
7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

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Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
n-butyl acetate	123-86-4	AGW	62 ppm 300 mg/m ³	2012-09-13	DE TRGS 900
Peak-limit: excursion factor (category)		2;(l)			
Further information		Commission for dangerous substances When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
ethyl acetate	141-78-6	AGW	200 ppm 730 mg/m ³	2017-06-08	DE TRGS 900
Peak-limit: excursion factor (category)		2;(l)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). European Union (The EU has established a limit value: deviations in value			

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		and peak limit are possible)When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
ethyl acetate	141-78-6	STEL	400 ppm 1 468 mg/m ³	2017-02-01	2017/164/EU
Further information		Indicative			
ethyl acetate	141-78-6	TWA	200 ppm 734 mg/m ³	2017-02-01	2017/164/EU
Further information		Indicative			
ethyl acetate	141-78-6	AGW	200 ppm 730 mg/m ³	2017-06-08	DE TRGS 900
Peak-limit: excursion factor (category)		2;(I)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).European Union (The EU has established a limit value: deviations in value and peak limit are possible)When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
ethyl acetate	141-78-6	STEL	400 ppm 1 468 mg/m ³	2017-02-01	2017/164/EU
Further information		Indicative			
ethyl acetate	141-78-6	TWA	200 ppm 734 mg/m ³	2017-02-01	2017/164/EU
Further information		Indicative			
propan-2-ol	67-63-0	AGW	200 ppm 500 mg/m ³	2006-01-01	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		Senate commission for the review of compounds at the work			

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place dangerous for the health (MAK-commission).When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child

United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
n-butyl acetate	123-86-4	ST	200 ppm 950 mg/m ³	2013-10-08	
n-butyl acetate	123-86-4	TWA	150 ppm 710 mg/m ³	2013-10-08	
n-butyl acetate	123-86-4	TWA	150 ppm 710 mg/m ³	1997-08-04	
n-butyl acetate	123-86-4	TWA	150 ppm 710 mg/m ³	1989-01-19	
n-butyl acetate	123-86-4	STEL	200 ppm 950 mg/m ³	1989-01-19	
n-butyl acetate	123-86-4	PEL	150 ppm 710 mg/m ³	2014-11-26	
n-butyl acetate	123-86-4	STEL	200 ppm 950 mg/m ³	2014-11-26	
n-butyl acetate	123-86-4	TWA	50 ppm	2017-03-01	
n-butyl acetate	123-86-4	STEL	150 ppm	2017-03-01	
ethyl acetate	141-78-6	TWA	400 ppm	2013-03-01	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m ³	2013-10-08	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m ³	1997-08-04	

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ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m ³	1989-01-19	
ethyl acetate	141-78-6	PEL	400 ppm 1 400 mg/m ³	2014-11-26	
ethyl acetate	141-78-6	TWA	400 ppm	2013-03-01	
ethyl acetate	141-78-6	TWA	400 ppm	2007-01-01	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m ³	2013-10-08	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m ³	2005-09-01	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m ³	1997-08-04	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m ³	1997-08-04	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m ³	1989-01-19	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m ³	1989-01-19	
ethyl acetate	141-78-6	PEL	400 ppm 1 400 mg/m ³	2014-11-26	
propan-2-ol	67-63-0	TWA	200 ppm	2013-03-01	
propan-2-ol	67-63-0	STEL	400 ppm	2013-03-01	
propan-2-ol	67-63-0	TWA	400 ppm 980 mg/m ³	2013-10-08	
propan-2-ol	67-63-0	ST	500 ppm 1 225 mg/m ³	2013-10-08	

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propan-2-ol	67-63-0	TWA	400 ppm 980 mg/m ³	1997-08-04	
propan-2-ol	67-63-0	TWA	400 ppm 980 mg/m ³	1989-01-19	
propan-2-ol	67-63-0	STEL	500 ppm 1 225 mg/m ³	1989-01-19	
propan-2-ol	67-63-0	PEL	400 ppm 980 mg/m ³	2014-11-26	
propan-2-ol	67-63-0	STEL	500 ppm 1 225 mg/m ³	2014-11-26	

United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
n-butyl acetate	123-86-4	ST	200 ppm 950 mg/m ³	2013-10-08	
n-butyl acetate	123-86-4	TWA	150 ppm 710 mg/m ³	2013-10-08	
n-butyl acetate	123-86-4	TWA	150 ppm 710 mg/m ³	1997-08-04	
n-butyl acetate	123-86-4	TWA	150 ppm 710 mg/m ³	1989-01-19	
n-butyl acetate	123-86-4	STEL	200 ppm 950 mg/m ³	1989-01-19	
n-butyl acetate	123-86-4	PEL	150 ppm 710 mg/m ³	2014-11-26	
n-butyl acetate	123-86-4	STEL	200 ppm 950 mg/m ³	2014-11-26	

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n-butyl acetate	123-86-4	TWA	50 ppm	2017-03-01	
n-butyl acetate	123-86-4	STEL	150 ppm	2017-03-01	
ethyl acetate	141-78-6	TWA	400 ppm	2013-03-01	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m ³	2013-10-08	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m ³	1997-08-04	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m ³	1989-01-19	
ethyl acetate	141-78-6	PEL	400 ppm 1 400 mg/m ³	2014-11-26	
ethyl acetate	141-78-6	TWA	400 ppm	2013-03-01	
ethyl acetate	141-78-6	TWA	400 ppm	2007-01-01	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m ³	2013-10-08	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m ³	2005-09-01	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m ³	1997-08-04	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m ³	1997-08-04	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m ³	1989-01-19	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m ³	1989-01-19	

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ethyl acetate	141-78-6	PEL	400 ppm 1 400 mg/m ³	2014-11-26	
propan-2-ol	67-63-0	TWA	200 ppm	2013-03-01	
propan-2-ol	67-63-0	STEL	400 ppm	2013-03-01	
propan-2-ol	67-63-0	TWA	400 ppm 980 mg/m ³	2013-10-08	
propan-2-ol	67-63-0	ST	500 ppm 1 225 mg/m ³	2013-10-08	
propan-2-ol	67-63-0	TWA	400 ppm 980 mg/m ³	1997-08-04	
propan-2-ol	67-63-0	TWA	400 ppm 980 mg/m ³	1989-01-19	
propan-2-ol	67-63-0	STEL	500 ppm 1 225 mg/m ³	1989-01-19	
propan-2-ol	67-63-0	PEL	400 ppm 980 mg/m ³	2014-11-26	
propan-2-ol	67-63-0	STEL	500 ppm 1 225 mg/m ³	2014-11-26	

8.2 Exposure controls

Personal protective equipment

Eye protection : Wear face-shield and protective suit for abnormal processing problems.

Hand protection

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- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Environmental exposure controls

- General advice : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- Appearance : liquid
- Colour : silver
- Odour : characteristic
- pH : No data available
- Freezing point : No data available
- Boiling point/boiling range : 76 °C
- Flash point : -4 °C
- Bulk density : No data available
- Flammability (solid, gas) : No data available

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Auto-flammability	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Density	: No data available
Solubility(ies)	
Water solubility	: insoluble
Miscibility with water	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

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Hazardous reactions : No decomposition if stored and applied as directed.
Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Hazardous decomposition products : No data available

Other information : No data available

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Components:****ethyl acetate :**

Acute oral toxicity : Rat: 5 620 mg/kg

Acute inhalation toxicity : LC50 Rat: 56 mg/l

Exposure time: 4 h

Test atmosphere: vapour

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Acute dermal toxicity : LD50 Rabbit: > 18 000 mg/kg

propan-2-ol :
Acute oral toxicity : LD50 Rat: > 2 000 mg/kg

Acute dermal toxicity : LD50 Rabbit: > 2 000 mg/kg

Skin corrosion/irritation**Product**

May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation**Product**

Eye irritation

Respiratory or skin sensitisation

No data available

Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available

Reprod.Tox./Development/Teratogenicity

No data available

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STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information**Product**

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.,
Concentrations substantially above the TLV value may cause narcotic effects., Solvents may
degrease the skin.

SECTION 12: Ecological information**12.1 Toxicity****Components:****ethyl acetate (141-78-6) :**

Toxicity to daphnia and other : (Daphnia (water flea)): 717 mg/l
aquatic invertebrates

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

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No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects**Product:**

Additional ecological information : No data available

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

- Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
In accordance with local and national regulations.
- Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.
In accordance with local and national regulations.

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SECTION 14: Transport information**14.1 UN number**

ADR : 1263
TDG : 1263
CFR : 1263
IMDG : 1263
IATA : 1263

14.2 Proper shipping name

ADR : PAINT
TDG : PAINT
CFR : PAINT
IMDG : PAINT
IATA : PAINT

14.3 Transport hazard class

ADR : 3
TDG : 3
CFR : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADR
Packaging group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3

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Tunnel restriction code : (D/E)

TDG

Packaging group : II

Labels : 3

CFR

Packaging group : II

Labels : 3

IMDG

Packaging group : II

Labels : 3

EmS Number : F-E, S-E

IATAPacking instruction (cargo
aircraft) : 364Packing instruction
(passenger aircraft) : 353

Packing instruction (LQ) : Y341

Packaging group : II

Labels : 3

14.5 Environmental hazards**14.6 Special precautions for user****14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No data available

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

15.2 Chemical safety assessment

No data available

SECTION 16: Other information**Full text of H-Statements**

H225 : Highly flammable liquid and vapour.
H226 : Flammable liquid and vapour.
H303 : May be harmful if swallowed.
H313 : May be harmful in contact with skin.
H319 : Causes serious eye irritation.
H336 : May cause drowsiness or dizziness.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET



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