

Trade name: einZA Lackspray glänzend RAL *

Product no.: 0051171

Current version : 1.0.0, issued: 07.10.2019

Replaced version: -, issued: -

Region: GB

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

1.1 Product identifier

Trade name

einZA Lackspray glänzend RAL *

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

Relevant identified uses of the substance or mixture

decorative paints/finishes

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

einZA Farben GmbH & Co KG

Junkersstraße 13

30179 Hannover

Telephone no. +49 (0)511 67490-0

Fax no. +49 (0)511 67490-20

e-mail info@einZA.com

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Aerosol 1; H222

Eye Irrit. 2; H319

STOT SE 3; H336

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



GHS02



GHS07

Signal word

Danger

Hazardous component(s) to be indicated on label:

acetone

n-butyl acetate

Hazard statement(s)

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

Hazard statements (EU)

EUH066

Repeated exposure may cause skin dryness or cracking.

Precautionary statement(s)

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

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.

Trade name: einzA Lackspray glänzend RAL *

Product no.: 0051171

Current version : 1.0.0, issued: 07.10.2019

Replaced version: -, issued: -

Region: GB

P251 Do not pierce or burn, even after use.
 P271 Use only outdoors or in a well-ventilated area.
 P405 Store locked up.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
 P501 Dispose of contents/container to a facility in accordance with local and national regulations.

2.3 Other hazards

PBT assessment
 The components of this product are not considered to be a PBT.
vPvB assessment
 The components of this product are not considered to be a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

| No | Substance name | | Additional information | |
|----|---|---|------------------------|--------|
| | CAS / EC / Index / REACH no | Classification (EC) 1272/2008 (CLP) | Concentration | |
| | | | | % |
| 1 | butane | | | |
| | 106-97-8 203-448-7 601-004-00-0 01-2119474691-32 | Flam. Gas 1; H220 Press. Gas liq.; H280 | >= 25.00 - < 50.00 | %-b.w. |
| 2 | acetone | | | |
| | 67-64-1 200-662-2 606-001-00-8 01-2119471330-49 | EUH066 Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336 | >= 25.00 - < 50.00 | %-b.w. |
| 3 | n-butyl acetate | | | |
| | 123-86-4 204-658-1 607-025-00-1 01-2119485493-29 | EUH066 Flam. Liq. 3; H226 STOT SE 3; H336 | >= 25.00 - < 50.00 | %-b.w. |
| 4 | propane | | | |
| | 74-98-6 200-827-9 601-003-00-5 01-2119486944-21 | Flam. Gas 1; H220 Press. Gas liq.; H280 | >= 10.00 - < 25.00 | %-b.w. |
| 5 | ethyl-acetate | | | |
| | 141-78-6 205-500-4 607-022-00-5 01-2119475103-46 | EUH066 Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336 | < 5.00 | %-b.w. |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

| No | Note | Specific concentration limits | M-factor (acute) | M-factor (chronic) |
|----|------|-------------------------------|------------------|--------------------|
| 1 | C, U | - | - | - |
| 4 | U | - | - | - |

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

After inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

After skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

After eye contact

Trade name: einzA Lackspray glänzend RAL *

Product no.: 0051171

Current version : 1.0.0, issued: 07.10.2019

Replaced version: -, issued: -

Region: GB

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray

Unsuitable extinguishing media

water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); Toxic pyrolysis products; Exposure to decomposition products may cause a health hazard.

5.3 Advice for firefighters

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses. Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Exclude sources of ignition and ventilate the area. Do not inhale vapours/aerosols. Refer to protective measures listed in sections 7 and 8.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Is not allowed to be released into the sewerage or water courses. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Do not breathe steams or mist of the product. For personal protection see section 8. Avoid eye, skin and clothing contact.

General protective and hygiene measures

Avoid skin and eye contact. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Advice on protection against fire and explosion

Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Electrical equipment should be protected to the appropriate standard.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Comply with legal health and safety regulations; Prevent unauthorised access. Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight. Keep away from sources of ignition. No smoking.

Requirements for storage rooms and vessels

Keep the product in the original packing. Keep container tightly closed. Observe label precautions. Official regulations ruling storage of aerosols must be observed.

Trade name: einza Lackspray glänzend RAL *

Product no.: 0051171

Current version : 1.0.0, issued: 07.10.2019

Replaced version: -, issued: -

Region: GB

Incompatible products

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

| No | Substance name | CAS no. | EC no. |
|---|---|--|------------------|
| 1 | butane | 106-97-8 | 203-448-7 |
| List of approved workplace exposure limits (WELs) / EH40 | | | |
| Butane | | | |
| | WEL short-term (15 min reference period) | 1810 mg/m ³ | 750 ppm |
| | WEL long-term (8-hr TWA reference period) | 1450 mg/m ³ | 600 ppm |
| | Comments | Carc, (only applies if Butane contains more than 0.1% of buta-1,3-diene) | |
| 2 | acetone | 67-64-1 | 200-662-2 |
| 2000/39/EC | | | |
| Acetone | | | |
| | WEL long-term (8-hr TWA reference period) | 1210 mg/m ³ | 500 ppm |
| List of approved workplace exposure limits (WELs) / EH40 | | | |
| Acetone | | | |
| | WEL short-term (15 min reference period) | 3620 mg/m ³ | 1500 ppm |
| | WEL long-term (8-hr TWA reference period) | 1210 mg/m ³ | 500 ppm |
| 3 | n-butyl acetate | 123-86-4 | 204-658-1 |
| List of approved workplace exposure limits (WELs) / EH40 | | | |
| Butyl acetate | | | |
| | WEL short-term (15 min reference period) | 966 mg/m ³ | 200 ppm |
| | WEL long-term (8-hr TWA reference period) | 724 mg/m ³ | 150 ppm |
| 4 | ethyl-acetate | 141-78-6 | 205-500-4 |
| 2017/164/EU | | | |
| Ethyl acetate | | | |
| | WEL short-term (15 min reference period) | 1468 mg/m ³ | 400 ppm |
| | WEL long-term (8-hr TWA reference period) | 734 mg/m ³ | 200 ppm |
| List of approved workplace exposure limits (WELs) / EH40 | | | |
| Ethyl acetate | | | |
| | WEL short-term (15 min reference period) | | 400 ppm |
| | WEL long-term (8-hr TWA reference period) | | 200 ppm |

DNEL, DMEL and PNEC values

DNEL values (worker)

| No | Substance name | CAS / EC no | | |
|----|------------------------|-------------------------------------|----------|------------------------|
| | Route of exposure | Exposure time | Effect | Value |
| 1 | acetone | 67-64-1 200-662-2 | | |
| | dermal | Long term (chronic) | systemic | 186 mg/kg/day |
| | inhalative | Short term (acut) | local | 2420 mg/m ³ |
| | inhalative | Short term (acut) | systemic | 1210 mg/m ³ |
| 2 | n-butyl acetate | 123-86-4 204-658-1 | | |
| | dermal | Long term (chronic) | systemic | 11 mg/kg/day |
| | dermal | Short term (acut) | systemic | 11 mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 300 mg/m ³ |
| | inhalative | Short term (acut) | systemic | 600 mg/m ³ |
| | inhalative | Long term (chronic) | local | 300 mg/m ³ |
| | inhalative | Short term (acut) | local | 600 mg/m ³ |
| 3 | ethyl-acetate | 141-78-6 205-500-4 | | |
| | dermal | Long term (chronic) | systemic | 63 mg/kg/day |
| | inhalative | Short term (acut) | systemic | 1468 mg/m ³ |
| | inhalative | Long term (chronic) | local | 734 mg/m ³ |
| | inhalative | Short term (acut) | local | 1468 mg/m ³ |
| | inhalative | Long term (chronic) | systemic | 734 mg/m ³ |

Trade name: einzA Lackspray glänzend RAL *

Product no.: 0051171

Current version : 1.0.0, issued: 07.10.2019

Replaced version: -, issued: -

Region: GB

DNEL value (consumer)

| No | Substance name | | | CAS / EC no | |
|------------|-------------------|---------------------|----------|-----------------------|-----------------------|
| | Route of exposure | Exposure time | Effect | Value | |
| 1 | acetone | | | 67-64-1 200-662-2 | |
| | oral | Long term (chronic) | systemic | 62 | mg/kg/day |
| | dermal | Long term (chronic) | systemic | 62 | mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 200 | mg/m ³ |
| 2 | n-butyl acetate | | | 123-86-4 204-658-1 | |
| | oral | Long term (chronic) | systemic | 2 | mg/kg/day |
| | oral | Short term (acute) | systemic | 2 | mg/kg/day |
| | dermal | Long term (chronic) | systemic | 6 | mg/kg/day |
| | dermal | Short term (acute) | systemic | 6 | mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 35.7 | mg/m ³ |
| | inhalative | Short term (acute) | systemic | 300 | mg/m ³ |
| | inhalative | Long term (chronic) | local | 35.7 | mg/m ³ |
| | inhalative | Short term (acute) | local | 300 | mg/m ³ |
| | 3 | ethyl-acetate | | | 141-78-6 205-500-4 |
| oral | | Long term (chronic) | systemic | 4.5 | mg/kg/day |
| dermal | | Long term (chronic) | systemic | 37 | mg/kg/day |
| inhalative | | Short term (acute) | systemic | 734 | mg/m ³ |
| inhalative | | Long term (chronic) | local | 367 | mg/m ³ |
| inhalative | | Short term (acute) | local | 734 | mg/m ³ |
| inhalative | | Long term (chronic) | systemic | 367 | mg/m ³ |

PNEC values

| No | Substance name | | CAS / EC no | |
|----|------------------------|-----------------------|-----------------------|------------------|
| | ecological compartment | Type | Value | |
| 1 | acetone | | 67-64-1 200-662-2 | |
| | water | fresh water | 10.6 | mg/L |
| | water | marine water | 1.06 | mg/L |
| | water | Aqua intermittent | 21 | mg/L |
| | water | fresh water sediment | 30.4 | mg/kg |
| | water | marine water sediment | 3.04 | mg/kg |
| | soil | - | 29.5 | mg/kg |
| | sewage treatment plant | - | 100 | mg/L |
| 2 | n-butyl acetate | | 123-86-4 204-658-1 | |
| | water | fresh water | 0.18 | mg/L |
| | water | marine water | 0.018 | mg/L |
| | water | Aqua intermittent | 0.36 | mg/L |
| | water | fresh water sediment | 0.981 | mg/kg dry weight |
| | water | marine water sediment | 0.0981 | mg/kg dry weight |
| | soil | - | 0.0903 | mg/kg |
| | sewage treatment plant | - | 35.6 | mg/L |
| 3 | ethyl-acetate | | 141-78-6 205-500-4 | |
| | water | fresh water | 0.24 | mg/L |
| | water | marine water | 0.024 | mg/L |
| | water | Aqua intermittent | 1.65 | mg/L |
| | water | fresh water sediment | 1.15 | mg/kg dry weight |
| | water | marine water sediment | 0.115 | mg/kg dry weight |
| | soil | - | 0.148 | mg/kg dry weight |
| | sewage treatment plant | - | 650 | mg/L |
| | secondary poisoning | - | 200 | mg/kg |

8.2 Exposure controls

Appropriate engineering controls

Provide good ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Personal protective equipment

Respiratory protection

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Short term: filter apparatus, Filter A

Trade name: einZA Lackspray glänzend RAL *

Product no.: 0051171

Current version : 1.0.0, issued: 07.10.2019

Replaced version: -, issued: -

Region: GB

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other

Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | | | |
|--|-------|-------|----------|
| Form/Colour | | | |
| Aerosol | | | |
| according to product name | | | |
| Odour | | | |
| characteristic | | | |
| Odour threshold | | | |
| No data available | | | |
| pH value | | | |
| No data available | | | |
| Boiling point / boiling range | | | |
| No data available | | | |
| Melting point / melting range | | | |
| No data available | | | |
| Decomposition point / decomposition range | | | |
| No data available | | | |
| Flash point | | | |
| No data available | | | |
| Ignition temperature | | | |
| Value | 490 | °C | |
| Auto-ignition temperature | | | |
| No data available | | | |
| Oxidising properties | | | |
| No data available | | | |
| Explosive properties | | | |
| No data available | | | |
| Flammability (solid, gas) | | | |
| No data available | | | |
| Lower flammability or explosive limits | | | |
| Value | 1.5 | % vol | |
| Upper flammability or explosive limits | | | |
| Value | 13.00 | % vol | |
| Vapour pressure | | | |
| Value | 3 | - | 4 bar |
| Reference temperature | | | 20 °C |
| Value | | | 10.4 bar |
| Reference temperature | | | 50 °C |
| Vapour density | | | |
| No data available | | | |
| Evaporation rate | | | |
| No data available | | | |
| Relative density | | | |

Trade name: einzA Lackspray glänzend RAL *

Product no.: 0051171

Current version : 1.0.0, issued: 07.10.2019

Replaced version: -, issued: -

Region: GB

| No data available | | | |
|---|-----------------------|----------|-----------|
| Density | | | |
| Value | 0.95 | g/ml | |
| Reference temperature | 20 | °C | |
| Reference substance | varnish | | |
| Solubility in water | | | |
| Comments | essentially insoluble | | |
| Solubility(ies) | | | |
| No data available | | | |
| Partition coefficient: n-octanol/water | | | |
| No | Substance name | CAS no. | EC no. |
| 1 | n-butyl acetate | 123-86-4 | 204-658-1 |
| log Pow | | 2.3 | |
| Reference temperature | | 25 | °C |
| Method | OECD 117 | | |
| Source | ECHA | | |
| 2 | propane | 74-98-6 | 200-827-9 |
| log Pow | appr. | 1.8 | |
| Method | QSAR | | |
| Source | ECHA | | |
| 3 | ethyl-acetate | 141-78-6 | 205-500-4 |
| log Pow | | 6.8 | |
| Reference temperature | | 25 | °C |
| Source | ECHA | | |
| Viscosity | | | |
| No data available | | | |

9.2 Other information

| |
|--------------------------|
| Other information |
| No data available. |

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage and handling conditions (See section 7).

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products

None if stored, handled and transported properly. In case of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

| Acute oral toxicity | | | |
|----------------------------|-----------------|----------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | acetone | 67-64-1 | 200-662-2 |
| LD50 | | 5800 | mg/kg bodyweight |
| Species | rat | | |
| Method | OECD 401 | | |
| Source | ECHA | | |
| 2 | n-butyl acetate | 123-86-4 | 204-658-1 |
| LD50 | | 10760 | mg/kg bodyweight |
| Species | rat | | |
| Method | OECD 423 | | |
| Source | ECHA | | |
| 3 | ethyl-acetate | 141-78-6 | 205-500-4 |

EC safety data sheet



Trade name: einzA Lackspray glänzend RAL *

Product no.: 0051171

Current version : 1.0.0, issued: 07.10.2019

Replaced version: -, issued: -

Region: GB

| | | | |
|---------|------|------|------------------|
| LD50 | > | 5600 | mg/kg bodyweight |
| Species | rat | | |
| Source | ECHA | | |

| Acute dermal toxicity | | | |
|-----------------------|-----------------|----------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | acetone | 67-64-1 | 200-662-2 |
| LD50 | > | 15800 | mg/kg bodyweight |
| Species | rabbit | | |
| Source | ECHA | | |
| 2 | n-butyl acetate | 123-86-4 | 204-658-1 |
| LD50 | > | 14112 | mg/kg bodyweight |
| Species | rabbit | | |
| Method | OECD 402 | | |
| Source | ECHA | | |
| 3 | ethyl-acetate | 141-78-6 | 205-500-4 |
| LD50 | > | 20000 | mg/kg bodyweight |
| Species | rabbit | | |
| Source | ECHA | | |

| Acute inhalational toxicity | | | |
|-----------------------------|---|---------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | acetone | 67-64-1 | 200-662-2 |
| LC50 | | 76 | mg/l |
| Duration of exposure | | 4 | h |
| State of aggregation | Vapour | | |
| Species | rat | | |
| Source | ECHA | | |
| 2 | propane | 74-98-6 | 200-827-9 |
| LC50 | > | 800000 | ppmV |
| Duration of exposure | | 0.25 | h |
| State of aggregation | Gas | | |
| Species | rat | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

| Skin corrosion/irritation | | | |
|---------------------------|---|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | n-butyl acetate | 123-86-4 | 204-658-1 |
| Species | rabbit | | |
| Method | OECD 404 | | |
| Source | ECHA | | |
| Evaluation | non-irritant | | |
| 2 | ethyl-acetate | 141-78-6 | 205-500-4 |
| Species | rabbit | | |
| Method | OECD 404 | | |
| Source | ECHA | | |
| Evaluation | low-irritant | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

| Serious eye damage/irritation | | | |
|-------------------------------|-----------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | n-butyl acetate | 123-86-4 | 204-658-1 |
| Species | rabbit | | |
| Method | OECD 405 | | |
| Source | ECHA | | |
| Evaluation | non-irritant | | |
| 2 | ethyl-acetate | 141-78-6 | 205-500-4 |
| Species | rabbit | | |
| Method | OECD 405 | | |
| Source | ECHA | | |
| Evaluation | low-irritant | | |

| Respiratory or skin sensitisation | | | |
|-----------------------------------|-----------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | ethyl-acetate | 141-78-6 | 205-500-4 |
| Route of exposure | Skin | | |
| Species | guinea pig | | |
| Method | OECD 406 | | |
| Source | ECHA | | |
| Evaluation | non-sensitizing | | |

EC safety data sheet



Trade name: einzA Lackspray glänzend RAL *

Product no.: 0051171

Current version : 1.0.0, issued: 07.10.2019

Replaced version: -, issued: -

Region: GB

| Germ cell mutagenicity | | | |
|---------------------------|-----------------|---|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | butane | 106-97-8 | 203-448-7 |
| Type of examination | | In vitro Mammalian Chromosomal Aberration Test | |
| Species | | Human Lymphocyte | |
| Method | | OECD 473 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| Type of examination | | in vitro gene mutation study in bacteria | |
| Species | | Salmonella typhimurium | |
| Method | | OECD 471 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| 2 | n-butyl acetate | 123-86-4 | 204-658-1 |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| 3 | propane | 74-98-6 | 200-827-9 |
| Route of exposure | | inhalational | |
| Species | | Salmonella typhimurium | |
| Method | | OECD 471 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |

| Reproduction toxicity | | | |
|---------------------------|-----------------|---|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | butane | 106-97-8 | 203-448-7 |
| Route of exposure | | inhalational | |
| Species | | rat | |
| Method | | OECD 422 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| 2 | n-butyl acetate | 123-86-4 | 204-658-1 |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| 3 | propane | 74-98-6 | 200-827-9 |
| Route of exposure | | inhalational | |
| Species | | rat | |
| Method | | OECD 422 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |

| Carcinogenicity | | | |
|-------------------|--|--|--|
| No data available | | | |

| STOT - single exposure | | | |
|------------------------|--|--|--|
| No data available | | | |

| STOT - repeated exposure | | | |
|---------------------------|-----------------|---|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | butane | 106-97-8 | 203-448-7 |
| Route of exposure | | inhalational | |
| Species | | rat | |
| Method | | OECD 422 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| 2 | n-butyl acetate | 123-86-4 | 204-658-1 |
| Route of exposure | | inhalational | |
| NOAEC | | 500 | ppm |
| Duration of exposure | | 90 | day(s) |
| Species | | rat | |
| Method | | EPA OTS 798.2450 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| 3 | propane | 74-98-6 | 200-827-9 |
| Route of exposure | | inhalational | |
| Species | | rat | |
| Method | | OECD 422 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |

| Aspiration hazard | | | |
|-------------------|--|--|--|
| | | | |

Trade name: einzA Lackspray glänzend RAL *

Product no.: 0051171

Current version : 1.0.0, issued: 07.10.2019

Replaced version: -, issued: -

Region: GB

| |
|--|
| No data available |
| Delayed and immediate effects as well as chronic effects from short and long-term exposure |
| Inhalation may cause irritations of the respiratory tract, allergic reactions, cough, breathing difficulties, headache, nausea and vomiting. |

SECTION 12: Ecological information

12.1 Toxicity

| Toxicity to fish (acute) | | | |
|---------------------------------|---|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | acetone | 67-64-1 | 200-662-2 |
| LC50 | | 5540 | mg/l |
| Duration of exposure | | 96 | h |
| Species | Oncorhynchus mykiss | | |
| Source | ECHA | | |
| 2 | n-butyl acetate | 123-86-4 | 204-658-1 |
| LC50 | | 18 | mg/l |
| Duration of exposure | | 96 | h |
| Species | Pimephales promelas | | |
| Method | OECD 203 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| 3 | ethyl-acetate | 141-78-6 | 205-500-4 |
| LC50 | | 230 | mg/l |
| Duration of exposure | | 96 | h |
| Species | Pimephales promelas | | |
| Source | ECHA | | |

| Toxicity to fish (chronic) | | | |
|-----------------------------------|--|--|--|
| No data available | | | |

| Toxicity to Daphnia (acute) | | | |
|------------------------------------|---|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | acetone | 67-64-1 | 200-662-2 |
| EC50 | | 8800 | mg/l |
| Duration of exposure | | 48 | h |
| Species | Daphnia pulex | | |
| Source | ECHA | | |
| 2 | n-butyl acetate | 123-86-4 | 204-658-1 |
| EC50 | | 44 | mg/l |
| Duration of exposure | | 48 | h |
| Species | Daphnia magna | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| 3 | ethyl-acetate | 141-78-6 | 205-500-4 |
| EC50 | | 1350 | mg/l |
| Duration of exposure | | 48 | h |
| Species | Daphnia magna | | |
| Source | ECHA | | |

| Toxicity to Daphnia (chronic) | | | |
|--------------------------------------|---|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | n-butyl acetate | 123-86-4 | 204-658-1 |
| NOEC | | 23 | mg/l |
| Duration of exposure | | 21 | day(s) |
| Species | Daphnia magna | | |
| with reference to | CAS 110-19-0 | | |
| Method | OECD 211 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

| Toxicity to algae (acute) | | | |
|----------------------------------|--|--|--|
| No data available | | | |

| Toxicity to algae (chronic) | | | |
|------------------------------------|--|--|--|
| No data available | | | |

| Bacteria toxicity | | | |
|--------------------------|-----------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | n-butyl acetate | 123-86-4 | 204-658-1 |

Trade name: einzA Lackspray glänzend RAL *

Product no.: 0051171

Current version : 1.0.0, issued: 07.10.2019

Replaced version: -, issued: -

Region: GB

| | | |
|----------------------|-----------------------------------|------|
| IC50 | 356 | mg/l |
| Duration of exposure | 40 | h |
| Species | Tetrahymena pyriformis (Protozoa) | |
| Source | ECHA | |

12.2 Persistence and degradability

| Biodegradability | | | |
|------------------|-----------------------|------------------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | butane | 106-97-8 | 203-448-7 |
| Type | | aerobic biodegradation | |
| Value | 50 | % | |
| Duration | 3.46 | d | |
| Method | QSAR | | |
| Source | ECHA | | |
| 2 | acetone | 67-64-1 | 200-662-2 |
| Type | | aerobic biodegradation | |
| Value | 90.9 | % | |
| Duration | 28 | day(s) | |
| Method | OECD 301 B | | |
| Source | ECHA | | |
| Evaluation | readily biodegradable | | |
| 3 | n-butyl acetate | 123-86-4 | 204-658-1 |
| Type | | aerobic biodegradation | |
| Value | 83 | % | |
| Duration | 28 | day(s) | |
| Method | OECD 301 D | | |
| Source | ECHA | | |
| Evaluation | readily biodegradable | | |
| 4 | propane | 74-98-6 | 200-827-9 |
| Type | | aerobic biodegradation | |
| Value | 50 | % | |
| Duration | 3 | d | |
| Method | QSAR | | |
| Source | ECHA | | |
| Evaluation | readily biodegradable | | |
| 5 | ethyl-acetate | 141-78-6 | 205-500-4 |
| Source | ECHA | | |
| Evaluation | readily biodegradable | | |

| Abiotic Degradation | | | |
|-----------------------|-----------------|------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | n-butyl acetate | 123-86-4 | 204-658-1 |
| Type | | Photolysis | |
| Half-life | 3.3 | day(s) | |
| Reference temperature | 25 | °C | |
| Source | ECHA | | |

12.3 Bioaccumulative potential

| Bioconcentration factor (BCF) | | | |
|-------------------------------|-------------------------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | n-butyl acetate | 123-86-4 | 204-658-1 |
| BCF | 15.3 | | |
| Method | Calculation model used (Q)SAR | | |
| Source | ECHA | | |

| Partition coefficient: n-octanol/water | | | |
|--|-----------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | n-butyl acetate | 123-86-4 | 204-658-1 |
| log Pow | 2.3 | | |
| Reference temperature | 25 | °C | |
| Method | OECD 117 | | |
| Source | ECHA | | |
| 2 | propane | 74-98-6 | 200-827-9 |
| log Pow | appr. 1.8 | | |
| Method | QSAR | | |
| Source | ECHA | | |
| 3 | ethyl-acetate | 141-78-6 | 205-500-4 |
| log Pow | 6.8 | | |
| Reference temperature | 25 | °C | |
| Source | ECHA | | |

Trade name: einzA Lackspray glänzend RAL *

Product no.: 0051171

Current version : 1.0.0, issued: 07.10.2019

Replaced version: -, issued: -

Region: GB

12.4 Mobility in soil
No data available.

12.5 Results of PBT and vPvB assessment

| Results of PBT and vPvB assessment | |
|------------------------------------|---|
| PBT assessment | The components of this product are not considered to be a PBT. |
| vPvB assessment | The components of this product are not considered to be a vPvB. |

12.6 Other adverse effects
No data available.

12.7 Other information

| Other information |
|--|
| Do not allow to enter drains or water courses. |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste code 08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

The listed waste code numbers, according to the European Waste Catalogue, are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company. Dispose of according to all applicable regulations upon consultation of the local competent authorities and the disposer in a suitable and authorised disposal facility.

Hand over only completely emptied aerosol cans for valuable substance recovery!

Packaging

Waste code 15 01 04; 15 01 11* metallic packaging; metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer. Empty containers must be scrapped or reconditioned.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class 2
 Classification code 5F
 UN number UN1950
 Proper shipping name AEROSOLS
 Tunnel restriction code D
 Label 2.1

14.2 Transport IMDG

Class 2
 UN number UN1950
 Proper shipping name AEROSOLS
 EmS F-D, S-U
 Label 2.1

14.3 Transport ICAO-TI / IATA

Class 2.1
 UN number UN1950
 Proper shipping name Aerosols, flammable
 Label 2.1

14.4 Other information
No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

Transport within the user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

SECTION 15: Regulatory information

Trade name: einzA Lackspray glänzend RAL *

Product no.: 0051171

Current version : 1.0.0, issued: 07.10.2019

Replaced version: -, issued: -

Region: GB

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

EU regulations

| | |
|--|---------|
| Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation) | |
| According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006. | |
| REACH candidate list of substances of very high concern (SVHC) for authorisation | |
| According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006. | |
| Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES | |
| According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances requiring authorisation as listed on Annex XVII of the REACH regulation (EC) 1907/2006. | |
| Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances | |
| This product is subject to Part I of Annex I, risk category: | P3a |
| Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control) | |
| VOC content | 62.5 % |
| VOC-value | 650 g/l |

National regulations

Other national regulations

Adhere to national regulations for proper handling and use of hazardous materials. Use appropriate personal protective equipment.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.
 The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.
 EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU
 National Threshold Limit Values of the corresponding countries as amended in each case.
 Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H220 Extremely flammable gas.
 H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H280 Contains gas under pressure; may explode if heated.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

C Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
 U When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Department issuing safety data sheet

UMCO GmbH
 Georg-Wilhelm-Str. 187, D-21107 Hamburg
 Tel.: +49 40 / 555 546 300 Fax: +49 40 / 555 546 357 e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Document protected by copyright. Alterations or reproductions require the express written permission of UMCO GmbH.

Prod-ID 671276