

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) No 453/2010

Article No.: StudioFirniss LUKAS Studio Sprühfilm Firnis EN
Print date 24.02.2020 Revision date 25.01.2018 Page 1 / 9
Version 1.3 Issue date 11.12.2014

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

1.1. product identifiers

Article No. (manufacturer/supplier): StudioFirniss
Identification of the substance or mixture LUKAS Studio Sprühfilm Firnis
Acrylic Varnish
315091 gloss, 315093 matt, 315092 semi-matt

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

Relevant identified uses:

Paints for Arts, Hobby & Craft
Artists supply and hobby preparations

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/downstream user/distributor):

Daler-Rowney Ltd
Peacock Lane Telephone: +44 (0) 1344 461083
Bracknell, RG12 8SS Telefax: +44 (0) 1344 486511
ENGLAND

Dept. responsible for information:

E-mail Philip.Gray@daler-rowney.com

1.4. Emergency telephone number

Emergency telephone: +44 (0) 1344 461000

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

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

Hazard pictograms



Danger

Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

Precautionary statements

P280 Wear eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.
P501 Dispose of contents/container in accordance with local legislation.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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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 aerosol.
 P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of the reach of children.

contains:

butan-1-ol
 Hydrocarbons, C7-C9

Supplemental Hazard information (EU)

not applicable

2.3. Other hazards

Buildup of explosive mixtures possible without sufficient ventilation.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Product description / chemical characterization

Description Aerosol; acrylic resin, solvent mixture, propellant

Hazardous ingredients

Classification according to Regulation (EC) No 1272/2008 [CLP]

EC No. CAS No. INDEX No.	REACH No. Chemical name classification	Wt % Remark
200-751-6 71-36-3 603-004-00-6	01-2119484630-38 butan-1-ol Flam. Liq. 3 H226 / Acute Tox. 4 H302 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / STOT SE 3 H336	20 - 25
203-806-2 110-82-7 601-017-00-1	cyclohexane Flam. Liq. 2 H225 / Asp. Tox. 1 H304 / Skin Irrit. 2 H315 / STOT SE 3 H336 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	2,5 - 5
204-065-8 115-10-6 603-019-00-8	01-2119472128-37 dimethyl ether Flam. Gas 1 H220 / Press. Gas	25 - 50
203-777-6 110-54-3 601-037-00-0	01-2119480412-44-xxxx n-Hexane Flam. Liq. 2 H225 / Skin Irrit. 2 H315 / Repr. 2 H361 / Asp. Tox. 1 H304 / STOT RE 2 H373 / STOT SE 3 H336 / Aquatic Chronic 2 H411	< 0,5
920-750-0 68920-06-9	01-2119473851-33 Hydrocarbons, C7-C9 Flam. Liq. 2 H225 / Asp. Tox. 1 H304 / STOT SE 3 H336 / Aquatic Chronic 2 H411	2,5 - 5
265-185-4 64742-82-1 649-330-00-2	01-2119490979-12 Naphtha (petroleum), hydrodesulfurized heavy Flam. Liq. 3 H226 / Asp. Tox. 1 H304	12,5 - 20
926-605-8 92128-66-0	Hydrocarbons, C6-C7 Flam. Liq. 2 H225 / Skin Irrit. 2 H315 / Asp. Tox. 1 H304 / STOT SE 3 H336 / Aquatic Chronic 2 H411	2,5 - 5

Additional information

Full text of H-phrases: see section 16.

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 advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

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In case of inhalation

Remove casualty to fresh air and keep warm and at rest. When in doubt or if symptoms are observed, get medical advice. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:

strong water jet

5.2. Special hazards arising from the substance or mixture

Inhaling hazardous decomposing products can cause serious health damage. Vapours form explosive mixtures with air.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Do not allow water used to extinguish fire to enter drains, ground or waterways. Cool closed containers that are near the source of the fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Use personal protection equipment. Wear respiratory protection. Keep unprotected people away and stay on the upwind side. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations. Vapours form explosive mixtures with air.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Provide adequate ventilation.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Follow the legal protection and safety regulations.

Precautions against fire and explosion:

Vapours are heavier than air. Vapours form explosive mixtures with air. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

7.2. Conditions for safe storage, including any incompatibilities

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Technical measures and storage conditions

Do not keep the container sealed. Store in a cool dry place.

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Smoking is forbidden. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (BGR 132)".

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values:

butan-1-ol

INDEX No. 603-004-00-6 / EC No. 200-751-6 / CAS No. 71-36-3

STEL: 154 mg/m³; 50 ppm

cyclohexane

INDEX No. 601-017-00-1 / EC No. 203-806-2 / CAS No. 110-82-7

TWA: 350 mg/m³; 100 ppm

STEL: 1050 mg/m³; 300 ppm

dimethyl ether

INDEX No. 603-019-00-8 / EC No. 204-065-8 / CAS No. 115-10-6

TWA: 766 mg/m³; 400 ppm

STEL: 958 mg/m³; 500 ppm

n-Hexane

INDEX No. 601-037-00-0 / EC No. 203-777-6 / CAS No. 110-54-3

TWA: 72 mg/m³; 20 ppm

Additional information

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

butan-1-ol

INDEX No. 603-004-00-6 / EC No. 200-751-6 / CAS No. 71-36-3

DNEL long-term oral (repeated), Workers: 3.125 mg/kg bw/day

DNEL long-term inhalative (local), Workers: 310 mg/m³

DNEL long-term inhalative (local), Consumer: 55 mg/kg bw/day

PNEC:

butan-1-ol

INDEX No. 603-004-00-6 / EC No. 200-751-6 / CAS No. 71-36-3

PNEC aquatic, freshwater: 0.082 mg/l

PNEC aquatic, marine water: 0.0082 mg/l

PNEC aquatic, intermittent release: 2.25 mg/l

PNEC sediment, freshwater: 0.178 mg/kg

PNEC sediment, marine water: 0.0178 mg/kg

PNEC, soil: 0.015 mg/kg

PNEC sewage treatment plant (STP): 2476 mg/l

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Occupational exposure controls

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Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection

Wear closely fitting protective glasses in case of splashes.

Protective clothing

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: Aerosol
Physical state Liquid
Colour refer to label
Odour characteristic

Safety relevant basis data	Unit	Method	Remark
Flash point:	not applicable °C	DIN 53213	
Ignition temperature in °C:	235 °C		
Lower explosion limit	1,5 Vol-%		
Upper explosion limit	18,6 Vol-%		In use, may form flammable/explosive vapour-air mixture.
Vapour pressure at 20 °C::	5200		
Density at 20 °C::	0,74 g/cm ³		
Water solubility (g/L)	insoluble		
pH at 20 °C::	-		
Viscosity at °C:	-		
Solvent separation test (%)	< 3 %		
boiling point in °C at 101,3 kPa	not applicable °C		

9.2. Other information:

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions. Vapours form explosive mixtures with air.

10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide.

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SECTION 11: Toxicological information

No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

butan-1-ol

oral, LD50, Rat: 2292 mg/kg
dermal, LD50, Rabbit: 3430 mg/kg
inhalative (vapours), LC50, Rat: > 17.76 mg/l (4 h)

cyclohexane

oral, LD50, Rat: 12700 mg/kg

n-Hexane

oral, LD50, Rat: 25000 mg/kg
dermal, LD50, Rat: 3000 mg/kg
inhalative (vapours), LC50, Rat: 169 mg/l (4 h)

Hydrocarbons, C7-C9

oral, LD50, Rat: > 2000 mg/kg
dermal, LD50, Rabbit: > 2000 mg/kg

Naphtha (petroleum), hydrodesulfurized heavy

oral, LD50, Rat: > 5000 mg/kg
Method: OECD 403
dermal, LD50, Rat: > 2000 mg/kg
inhalative (vapours), LC50, Rat: > 13.1 mg/l (4 h)
Method: OECD 403

Irritant and corrosive effects

Causes skin irritation.

Causes serious eye damage.

butan-1-ol

Skin (4 h)
Irritating to skin.
eyes
strongly irritant.; Risk of serious damage to eyes.

Sensitisation

Toxicological data are not available.

Specific target organ toxicity

May cause respiratory irritation.

May cause drowsiness or dizziness.

butan-1-ol

Specific target organ toxicity (single exposure)
Vapours may cause drowsiness and dizziness.

Aspiration hazard

Toxicological data are not available.

Practical experience/human evidence

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall Assessment on CMR properties

The ingredients in this preparation do not meet the criteria for classification as CMR category 1 or 2 according to 67/548/EEC.

Remark

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The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

SECTION 12: Ecological information

overall evaluation

There is no information available on the preparation itself.
Do not allow to enter into surface water or drains.

12.1. Toxicity

butan-1-ol

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 1376 mg/l (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1328 mg/l (48 h)
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 225 mg/l (96 h)

cyclohexane

Fish toxicity, LC50 4.53 - 610 mg/l (96 h)

n-Hexane

Fish toxicity, LC50 2.5 - 113 mg/l (96 h)

Naphtha (petroleum), hydrodesulfurized heavy

Daphnia toxicity, EC50, Daphnia magna (Big water flea) 10 - 20 mg/l (48 h)
Method: OECD 202

Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

n-Hexane

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 3.78 mg/l (48 h)

Hydrocarbons, C7-C9

Fish toxicity, LC50 1 - 10 mg/l (96 h)

Naphtha (petroleum), hydrodesulfurized heavy

Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 0.22 mg/l (72 h)
Method: OECD 201

12.2. Persistence and degradability

Toxicological data are not available.

12.3. Bioaccumulative potential

Toxicological data are not available.

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

080111*	waste paint and varnish containing organic solvents or other dangerous substances
150104	metallic packaging

packaging

Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste. Send to a collecting point for used paints.

SECTION 14: Transport information

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- 14.1. **UN number** UN 1950
- 14.2. **UN proper shipping name**
Land transport (ADR/RID): Aerosols, flammable (Cyclohexan)
Sea transport (IMDG): AEROSOLS (Cyclohexan)
Air transport (ICAO-TI / IATA-DGR): Aerosols, flammable (Cyclohexan)
- 14.3. **Transport hazard class(es)** 2.1
- 14.4. **Packing group** not applicable
- 14.5. **Environmental hazards**
Land transport (ADR/RID) UMWELTGEFÄHRDEND
Marine pollutant not applicable
- 14.6. **Special precautions for user**
Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8
- Further information**
- Land transport (ADR/RID)**
tunnel restriction code D
- Sea transport (IMDG)**
EmS-No. F-D, S-U
Classification code: 5F
- 14.7. **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
not applicable

SECTION 15: Regulatory information

- 15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- EU legislation**
- Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).**
VOC-value (in g/L) ISO 11890-2: 653
VOC-value (in g/L) ASTM D 2369: 653
- National regulations**
- Restrictions of occupation**
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
- Other regulations, restrictions and prohibition regulations**
- 15.2. **Chemical Safety Assessment**
For the following substances of this preparation a chemical safety assessment has been carried out:
- | EC No.
CAS No. | Chemical name | REACH No. |
|-------------------------|---------------------|-----------------------|
| 200-751-6
71-36-3 | butan-1-ol | 01-2119484630-38 |
| 204-065-8
115-10-6 | dimethyl ether | 01-2119472128-37 |
| 203-777-6
110-54-3 | n-Hexane | 01-2119480412-44-xxxx |
| 920-750-0
68920-06-9 | Hydrocarbons, C7-C9 | 01-2119473851-33 |

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265-185-4 64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy	01-2119490979-12
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16. Other information

Relevant R-and H-phrases (Number and full text):

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.
Flam. Gas 1 / H220	flammable gases	Extremely flammable gas.
Press. Gas	Gases under pressure	
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging fertility.
STOT RE 2 / H373	Specific target organ toxicity (repeated exposure)	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Further information

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.