Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

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

1.1. **product identifiers**

Identification of the substance or mixture: Graffitex Liquid

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

Relevant identified uses:
Removal of graffiti from solvent-resistant surfaces.

1.3. **Details of the supplier of the safety data sheet**

supplier (manufacturer/importer/downstream user/distributor)

TECHNIQUA HANDELS GmbH
Reichenhaller Straße 15
D-83451 Piding
Tel: +49 (8651) - 767 62 51
E-Mail: sales@techniqua.de

1.4. **Emergency telephone number**

Poison information center
Tel: +49 (0) 6131 - 19240, Langenbeckstraße 1, D- 55131 Mainz

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].

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.

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

Warning

Hazard statements

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P243	Take action to prevent static discharges.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to industrial incineration plant.
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

contains:

not applicable

Supplemental Hazard information (EU)

not applicable

2.3. **Other hazards**

SECTION 3: Composition / information on ingredients

3.2. **Mixtures**

Product description / chemical characterization

Description Solvent / Surfactant mixture

Hazardous ingredients

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

EC No. CAS No. INDEX No.	REACH No. Chemical name classification: // Remark	Wt %
203-539-1 107-98-2 603-064-00-3	01-2119457435-35-0000 1-methoxy-2-propanol Flam. Liq. 3 H226 / STOT SE 3 H336	10 < 25
203-603-9 108-65-6 607-195-00-7	01-2119475791-29-0000 2-methoxy-1-methylethyl acetate STOT SE 3 H336 / Flam. Liq. 3 H226	10 < 25
209-406-4 577-11-7	01-2119491296-29-0000 Sulfosuccinic Acid Bis(2-ethylhexyl) Ester Sodium Salt Skin Irrit. 2 H315 / Eye Dam. 1 H318	< 2,5
205-524-5 142-16-5	01-2119524002-60-0000 Bis(2-ethylhexyl) maleate STOT RE 2 H373 / Aquatic Chronic 1 H410	< 2,5

Additional information

Full text of classification: see section 16

Labelling for contents according to regulation (EC) No. 648/2004:

< 5 % Anionic Surfactants

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.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. 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. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician 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**

not applicable

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**
Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

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. 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.

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). Clean using cleansing agents. Do not use solvents.

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. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Precautions against fire and explosion:
Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. **Conditions for safe storage, including any incompatibilities**

Requirements for storage rooms and vessels
Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRBS 2153)".

Hints on joint storage
Keep away from strongly acidic and alkaline materials as well as oxidizers.

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 35 °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.

Storage class:
3 = Flammable liquids

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

1-methoxy-2-propanol

INDEX No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2

WEL, TWA: 375 mg/m3; 100 ppm
WEL, STEL: 560 mg/m3; 150 ppm

2-methoxy-1-methylethyl acetate
INDEX No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

WEL, TWA: 274 mg/m3; 50 ppm
WEL, STEL: 548 mg/m3; 100 ppm

Additional information

TWA : long-term occupational exposure limit value
STEL : short-term occupational exposure limit value
Ceiling : peak limitation

DNEL:

2-methoxy-1-methylethyl acetate
INDEX No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6
DNEL long-term dermal (systemic), Workers: 796 mg/kg bw/day
DNEL long-term inhalative (systemic), Workers: 275 mg/m³
DNEL long-term oral (repeated), Consumer: 36 mg/kg bw/day
DNEL long-term dermal (systemic), Consumer: 320 mg/kg bw/day
DNEL long-term inhalative (local), Consumer: 33 mg/m³
DNEL long-term inhalative (systemic), Consumer: 33 mg/m³

1-methoxy-2-propanol
INDEX No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2
DNEL long-term dermal (systemic), Workers: 50,6 mg/kg
DNEL acute inhalative (local), Workers: 553,5 mg/m³
DNEL long-term inhalative (systemic), Workers: 369 mg/m³
DNEL long-term oral (repeated), Consumer: 3,3 mg/kg
DNEL long-term dermal (systemic), Consumer: 18,1 mg/kg
DNEL long-term inhalative (systemic), Consumer: 43,9 mg/m³

Sulfosuccinic Acid Bis(2-ethylhexyl) Ester Sodium Salt
EC No. 209-406-4 / CAS No. 577-11-7
DNEL long-term dermal (systemic), Workers: 31,3 mg/kg bw/day
DNEL long-term inhalative (systemic), Workers: 44,1 mg/m³
DNEL long-term oral (repeated), Consumer: 18,8 mg/kg bw/day
DNEL long-term dermal (systemic), Consumer: 18,8 mg/kg bw/day
DNEL long-term inhalative (systemic), Consumer: 13 mg/m³

Bis(2-ethylhexyl) maleate
EC No. 205-524-5 / CAS No. 142-16-5
DNEL long-term dermal (local), Workers: 3,91 mg/kg
DNEL long-term dermal (systemic), Workers: 0,42 mg/kg bw/day
DNEL long-term inhalative (local), Workers: 1,95 mg/m³
DNEL long-term inhalative (systemic), Workers: 186,11 mg/m³

PNEC:

2-methoxy-1-methylethyl acetate
INDEX No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6
PNEC aquatic, freshwater: 0,635 mg/l
PNEC aquatic, marine water: 0,0635 mg/l
PNEC sediment, freshwater: 3,29 mg/kg
PNEC sediment, marine water: 0,329 mg/kg
PNEC, soil: 0,29 mg/kg
PNEC sewage treatment plant (STP): 100 mg/l

1-methoxy-2-propanol
INDEX No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2
PNEC aquatic, freshwater: 10 mg/l
PNEC aquatic, marine water: 1 mg/l
PNEC aquatic, intermittent release: 100 mg/l
PNEC sediment, freshwater: 52,3 mg/kg
PNEC sediment, marine water: 5,2 mg/kg

PNEC, soil: 5,49 mg/kg
PNEC sewage treatment plant (STP): 100 mg/l

Sulfosuccinic Acid Bis(2-ethylhexyl) Ester Sodium Salt
EC No. 209-406-4 / CAS No. 577-11-7
PNEC aquatic, freshwater: 0,0066 mg/l
PNEC aquatic, marine water: 0,0007 mg/l
PNEC sediment, freshwater: 0,653 mg/kg
PNEC sediment, marine water: 0,0653 mg/kg
PNEC, soil: 0,138 mg/kg
PNEC sewage treatment plant (STP): 122 mg/l

Bis(2-ethylhexyl) maleate
EC No. 205-524-5 / CAS No. 142-16-5
PNEC aquatic, freshwater: 0,001 mg/l
PNEC aquatic, marine water: 0,0001 mg/l
PNEC sediment, freshwater: 15,95 mg/kg
PNEC sediment, marine water: 1,595 mg/kg
PNEC, soil: 3,19 mg/kg
PNEC sewage treatment plant (STP): 100 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

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.
Suitable respiratory protection apparatus:Combination filter A2/P2

Hand protection

For prolonged or repeated handling the following glove material must be used: KCL Butoject
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 DIN EN 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:

Physical state:	**Liquid**
Appearance:	**Liquid**
Colour:	**colourless**
Odour:	**type typical**
Odour threshold:	**not determined**
pH at20 °C:	**not applicable**
Melting point/freezing point:	**-66 °C**
Initial boiling point and boiling range:	**100 °C** Method: literature value
Flash point:	**52 °C**

Method: Pensky-Martens

Evaporation rate: **not determined**

Flammability (solid, gas):
Burning time (s): **not determined**

Upper/lower flammability or explosive limits:
Lower explosion limit: **1,56 Vol-%**
Method: calculated
Upper explosion limit: **28,5 Vol-%**
Method: calculated

Vapour pressure at20 °C: **13,3 mbar**
Method: literature value

Vapour density: **not determined**

Relative density:
Density at20 °C: **1,04 g/cm³**
Method: Pycnometer
Relative density at20 °C: **not determined**

Solubility(ies):
Water solubility (g/L) at20 °C: **emulsified**

Partition coefficient: n-octanol/water: **see section 12**

Auto-ignition temperature: **270 °C**
Method: literature value

Decomposition temperature: **not determined**

Viscosity at20 °C: **< 12 s 4 mm**
Method: DIN 53211

Explosive properties: **not applicable**

Oxidising properties: **not applicable**

9.2. **Other information**

Solid content (%): **1,41 Wt % / 1,29 L/kg / 1,34 Vol-%**
Remark: Solid content (%)Remark

Solvent:
Organic solvents: **98,6 Wt %**
aromatic hydrocarbons: **0,0 Wt %**
Water: **0,0 Wt %**

Bulk density:

Drop point/drop range:

Pour point: **0 °C**

Sustaining combustion: **Sustaining combustion: Yes, positive.**

SECTION 10: Stability and reactivity

10.1. **Reactivity**
not applicable

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.

10.4. **Conditions to avoid**
Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. **Incompatible materials**
Observe protective provisions (see section 7 and 8).

10.6. **Hazardous decomposition products**
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

Classification according to Regulation (EC) No 1272/2008 [CLP]
No data on preparation itself available.

11.1. **Information on toxicological effects**

Acute toxicity

2-methoxy-1-methylethyl acetate
oral, LD50, Rat: 6190 mg/kg
Method: OECD 401
dermal, LD50, Rat: > 2000 mg/kg
Method: OECD 402
dermal, LD50, Rabbit: > 5000 mg/kg
Method: OECD 402

1-methoxy-2-propanol
oral, LD50, Rat: 4016 mg/kg
dermal, LD50, Rat: > 2000 mg/kg

skin corrosion/irritation; Serious eye damage/eye irritation

Sulfosuccinic Acid Bis(2-ethylhexyl) Ester Sodium Salt
Skin, Rabbit
Method: OECD 404
Causes skin irritation.
eyes, Rabbit
Method: OECD 405
Causes serious eye damage..

Respiratory or skin sensitisation

Toxicological data are not available.

Specific target organ toxicity

1-methoxy-2-propanol
Specific target organ toxicity (single exposure), drowsiness:
Causes drowsiness or dizziness.

Bis(2-ethylhexyl) maleate
Specific target organ toxicity (repeated exposure):
May cause damage to kidneys through prolonged or repeated exposure if swallowed.

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 mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

There is no information available on the preparation itself .

CAUTION! Solvents can be absorbed through the skin. Under unfavourable circumstances, also other substances (e.g. from the removed remains of paint) can penetrate through the skin.
Therefore, adopt suitable precautions (see Items 8 and 15 in this regard).

SECTION 12: Ecological information

overall evaluation
Classification according to Regulation (EC) No 1272/2008 [CLP]
There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

12.1. **Toxicity**

2-methoxy-1-methylethyl acetate
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): > 100 mg/l (96 h)
Method: OECD 203
Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 500 mg/l (48 h)
Method: OECD 202
Algae toxicity, ErC50, Scenedesmus capricornutum: > 1000 mg/l (72 h)
Method: OECD 201

Long-term Ecotoxicity

2-methoxy-1-methylethyl acetate
Fish toxicity, NOEC, Oryzias latipes (Ricefish): 47,5 mg/l (14 d)
Method: OECD 204
Daphnia toxicity, NOEC, Daphnia magna (Big water flea): > 100 mg/l (21 d)
Method: OECD 202

12.2. **Persistence and degradability**

2-methoxy-1-methylethyl acetate
Biodegradation: 83 % (28 D); evaluation Readily biodegradable (according to OECD criteria).
Method: OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D

12.3. **Bioaccumulative potential**

2-methoxy-1-methylethyl acetate
Partition coefficient: n-octanol/water: 1,2
Method: OECD 117

1-methoxy-2-propanol
Partition coefficient: n-octanol/water: -0,44

12.4. **Mobility in soil**

Toxicological data are not available.

12.5. **Results of PBT and vPvB assessment**

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

12.6. **Other adverse effects**

not applicable

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.

Waste water with paint remover:
Always collect the waste water and run it through a filter, gravel trap, sand trap, etc., in order to remove solid particles. Caution in case of a channel separation system. Obtain information from the relevant authorities. After inquiring with the local authorities, waste water can usually be directed into the sewerage system.

Paint sludge:
The separated paint sludge is considered domestic or special waste (heavy metals?) according to its composition.

List of proposed waste codes/waste designations in accordance with AAV
200129 Detergents containing hazardous substances

packaging
Recommendation
Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1. **UN number**

UN 1263

14.2. **UN proper shipping name**

Land transport (ADR/RID):	Paint related material
Sea transport (IMDG):	PAINT RELATED MATERIAL
Air transport (ICAO-TI / IATA-DGR):	Paint related material

14.3. **Transport hazard class(es)**

3

14.4. **Packing group**

III

14.5. **Environmental hazards**

Land transport (ADR/RID)	not applicable
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/E

Sea transport (IMDG)

EmS-No.	F-E, S-D

Air transport (ICAO-TI / IATA-DGR)

14.7. **Transport in bulk according to Annex II of Marpol 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

Directive 2010/75/EU on industrial emissions
VOC-value (in g/L): 673,8

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).

Water hazard class (WGK)
1 = schwach wassergefährdend

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.
203-539-1 107-98-2	1-methoxy-2-propanol	01-2119457435-35-0000
203-603-9 108-65-6	2-methoxy-1-methylethyl acetate	01-2119475791-29-0000
205-524-5 142-16-5	Bis(2-ethylhexyl) maleate	01-2119524002-60-0000

SECTION 16: Other information

Full text of classification in section 3:

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
STOT RE 2 / H373	Specific target organ toxicity (repeated	May cause damage to organs (or state all

	exposure)	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 1 / H410	Hazardous to the aquatic environment	Very 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
Classification according to Regulation (EC) No 1272/2008 [CLP]

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.