

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.05.2017

Version number 3

Revision: 12.05.2017

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

1.1 Product identifier

Trade name: Strass 244

Article number: 1SK244

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

Application of the substance / the mixture Adhesives

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Sussmann & Steinhauser GmbH

Glasschleiferstr. 14

D - 87600 Kaufbeuren

Telefon +49 (0) 8341 / 62087

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Further information obtainable from:

Competent staff person for Material Safety Data Sheet

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1.4 Emergency telephone number: Giftnotruf München: Telefon +49 (0) 89 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02



GHS07

Signal word Danger

Hazard-determining components of labelling:

n-butyl acetate

ethyl acetate

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Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures**Description:** Mixture: consisting of the following components.**Dangerous components:**

CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1	n-butyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	30-40%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5	ethyl acetate ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	15-20%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5	ethanol ⚠ Flam. Liq. 2, H225	5-10%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures**General information:** Immediately remove any clothing soiled by the product.**After inhalation:**

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.**After swallowing:**

Do not induce vomiting; call for medical help immediately.

Try not to vomit. Swallow activated carbon and sodium sulphate.

A person vomiting while laying on their back should be turned onto their side.

Inform doctor. Do not give milk or fatty oils.

4.2 Most important symptoms and effects, both acute and delayed

Nausea, vomiting, headaches, dizziness, unconsciousness, haemolysis, liver and kidney disorders. Aspiration can cause pulmonary oedema and pneumonia. Burning or reddening of the eyes, drowsiness and possible co-ordination difficulties.

4.3 Indication of any immediate medical attention and special treatment needed**Effect:** Has a narcotic effect and causes skin, eye, mucous membrane and respiratory tract irritation.**Treatment:** Decontamination, symptomatic treatment. No known specific antidote. Administration of dexamethason.

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*Monitoring in the case of a risk of lung oedema. Do not induce vomiting, do not pump stomach.
Diagnostics: Exposure assessment by determining ethanol in the blood and the exhaled air.
Check: Blood count, liver and kidney functions.*

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Watch for re-inflammation. Risk of bursting and explosion if containers heated, due to increase in pressure. Vapours spread at floor level. If larger quantities at a higher temperature permeate into the sewage system, there may be an explosion risk.

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Dispose of the material collected according to regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep receptacles tightly sealed.

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

Use solvent-proof equipment.

Emergency eye baths should be available in the immediate vicinity.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Fumes can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Provide solvent resistant, sealed floor.

Store in cool, dry place in tightly closed receptacles.

Information about storage in one common storage facility:

Do not store with foodstuffs and animal feed.

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Store away from flammable substances.

Further information about storage conditions:

Store receptacle in a well ventilated area.

Storage temperature: not above 35 °C

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s) Single component adhesive for bonding different materials.**SECTION 8: Exposure controls/personal protection****Additional information about design of technical facilities:** No further data; see item 7.**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 123-86-4 n-butyl acetate**

WEL (Great Britain)	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
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EL (Canada)	Long-term value: 20 ppm
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EV (Canada)	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
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PEL (USA)	Long-term value: 710 mg/m ³ , 150 ppm
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REL (USA)	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
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TLV (USA)	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 713 mg/m ³ , 150 ppm
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CAS: 141-78-6 ethyl acetate

WEL (Great Britain)	Short-term value: 400 ppm Long-term value: 200 ppm
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EL (Canada)	Long-term value: 150 ppm
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EV (Canada)	Long-term value: 1.440 mg/m ³ , 400 ppm
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PEL (USA)	Long-term value: 1400 mg/m ³ , 400 ppm
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REL (USA)	Long-term value: 1400 mg/m ³ , 400 ppm
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TLV (USA)	Long-term value: 1440 mg/m ³ , 400 ppm
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CAS: 64-17-5 ethanol

WEL (Great Britain)	Long-term value: 1920 mg/m ³ , 1000 ppm
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EL (Canada)	Short-term value: 1000 ppm
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EV (Canada)	Long-term value: 1.900 mg/m ³ , 1.000 ppm
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PEL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm
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REL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm
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TLV (USA)	Short-term value: 1880 mg/m ³ , 1000 ppm
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Additional information: The lists valid during the making were used as basis.**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

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

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Preventive skin protection by use of skin-protecting agents is recommended.

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After use of gloves apply skin-cleaning agents and skin cosmetics.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The times given are a guide for the reference value 22 °C:

Penetration time \geq 8 hours: Multi-layered glove - PE/EVAL/PE, fluorinated rubber - FKM (0.4mm), butyl rubber butyl (0.5mm)

Penetration time \geq 2 hours: Polychloroprene - CR (0.5mm)

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Not suitable are gloves made of the following materials:

Fabric and leather, natural rubber/natural latex - NR, nitrile rubber/nitrile latex - NBR (0.35mm), polyvinyl chloride - PVC, polychloroprene CR (0.5mm)

Eye protection:

Tightly sealed goggles

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties**General Information****Appearance:**

Form:	Fluid
Colour:	Colourless, clear to pale yellow
Odour:	Fruit-like
Odour threshold:	Not determined.

pH-value: Not determined.

Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	77-127 °C

Flash point: -4 °C

Flammability (solid, gas): Not applicable.

Ignition temperature: 370 °C

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits:

Lower:	1.2 Vol %
Upper:	7.5 Vol %

Vapour pressure at 20 °C: 97 hPa

Density: Not determined.

Relative density at 20 °C 0.830 g/cm³

Vapour density Not determined.

Evaporation rate Not determined.

Solubility in / Miscibility with water:

Slightly soluble.

Partition coefficient: n-octanol/water: Not determined.

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Viscosity:**Dynamic:** Not determined.**Kinematic:** Not determined.**Solvent content:****Organic solvents:** 50-70 %**9.2 Other information** No further relevant information available.**SECTION 10: Stability and reactivity****10.1 Reactivity** No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

To avoid thermal decomposition do not overheat.

10.3 Possibility of hazardous reactions

Highly exothermic reaction with strong oxidising agents, reducing agents, alkali metals, bromine, bromoform, isoprene, sodium, sulphur dichloride.

10.4 Conditions to avoid

Keep ignition sources away - Do not smoke.

Extreme temperatures and direct sunlight.

10.5 Incompatible materials: No further relevant information available.**10.6 Hazardous decomposition products:**

Ethanol decomposes at 700 °C in methane, ethane, ethyne, hydrogen, water, ether, divinyl, carbon monoxide, formaldehyde, benzene.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity** Based on available data, the classification criteria are not met.**Primary irritant effect:****Skin corrosion/irritation**

Slight irritation

Prolonged or repeated skin contact may cause degreasing and dermatitis.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure**

May cause drowsiness or dizziness.

STOT-repeated exposure Based on available data, the classification criteria are not met.**Aspiration hazard** Based on available data, the classification criteria are not met.**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:** No further relevant information available.**12.2 Persistence and degradability** No further relevant information available.**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.

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Additional ecological information:**General notes:**

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

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

12.5 Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** This product contains no organically-bound halogen.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.**European waste catalogue**

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste Codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Uncleaned packaging:**Recommendation:**

Packaging may be reused or recycled after cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

Recommended cleansing agents: Dilution 1002 (nitro) or acetone.**SECTION 14: Transport information****14.1 UN-Number****ADR, IMDG, IATA** UN1133**14.2 UN proper shipping name****ADR, IMDG, IATA** ADHESIVES**14.3 Transport hazard class(es)****ADR, IMDG, IATA****Class** 3 Flammable liquids.**Label** 3**14.4 Packing group****ADR, IMDG, IATA** II**14.5 Environmental hazards:****Marine pollutant:** No**14.6 Special precautions for user** Not applicable.

Warning: Flammable liquids.

Danger code (Kemler): 33**EMS Number:** F-E,S-E**Stowage Category** B**Transport/Additional information:****ADR****Limited quantities (LQ)** 5L**Excepted quantities (EQ)** Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

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Transport category 2
Tunnel restriction code D/E

IMDG

Limited quantities (LQ) 5L
Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation": UN 1133 ADHESIVES, 3, II

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Department issuing SDS: 10064/147

Contact:

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Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

*** Data compared to the previous version altered.**

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