

1 Identification

- **Product identifier**
- **Trade name:** STAUF WFR-930
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer:**
STAUF Klebstoffwerk GmbH
Oberhausener Strasse 1
57234 Wilnsdorf, Germany
Phone 01149-273-930-1100
Fax 01149-273-930-1200
- **Distributor:**
STAUF USA, LLC.
11121 Hwy 70 Suite 102
Arlington, TN 38002, USA
Phone 1-901-820-0007
Fax 1-901-820-0101
- **Emergency telephone number:** CHEMTREC 1-800-424-9300 (USA) 1-703-527-3887 (International)

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

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



GHS08 Health hazard

Carc. 1A H350 May cause cancer.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Flammable

Flammable.

Vapours may cause drowsiness and dizziness.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Has a narcotizing effect.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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· **Label elements**

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with directives on hazardous materials.

· *Code letter and hazard designation of product:*



F Flammable

· *Risk phrases:*

Flammable.

Vapours may cause drowsiness and dizziness

· *Safety phrases:*

Keep out of the reach of children.

Keep container tightly closed and in a well-ventilated place.

Keep away from sources of ignition - No smoking.

Do not breathe gas/fumes/vapour/spray.

Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Do not empty into drains.

Take precautionary measures against static discharges.

If swallowed, seek medical advice immediately and show this container or label.

Use only in well-ventilated areas.

This material and its container must be disposed of as hazardous waste.

· **Classification system:**

· *NFPA ratings (scale 0 - 4)*



Health = 0

Fire = 3

Reactivity = 0

· *WHMIS-ratings (scale 0 - 4)*



Health = 0

Fire = 3

Reactivity = 0

· *Results of PBT and vPvB assessment*

· *PBT:* Not applicable.

· *vPvB:* Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

79-20-9	methyl acetate	10-25%
67-64-1	acetone	2.5-10%
64-17-5	ethanol	2.5-10%
27138-31-4	Dipropylenglycol dibenzoat	≤ 2.5%

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- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complications.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Wear protective clothing.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **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.

7 Handling and storage

- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

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- Avoid contact with the eyes.
- **Information about protection against explosions and fires:**
 - Keep ignition sources away - Do not smoke.
 - Protect against electrostatic charges.
 - Prevent impact and friction.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
 - *Requirements to be met by storerooms and receptacles:* Store in a cool location.
 - *Information about storage in one common storage facility:* Not required.
 - *Further information about storage conditions:*
 - Keep receptacle tightly sealed.
 - Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

• Components with limit values that require monitoring at the workplace:

79-20-9 methyl acetate

PEL	Long-term value: 610 mg/m ³ , 200 ppm
REL	Short-term value: 760 mg/m ³ , 250 ppm Long-term value: 610 mg/m ³ , 200 ppm
TLV	Short-term value: 757 mg/m ³ , 250 ppm Long-term value: 606 mg/m ³ , 200 ppm

67-64-1 acetone

PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
REL	Long-term value: 590 mg/m ³ , 250 ppm
TLV	Short-term value: (1782) NIC-1187 mg/m ³ , (750) NIC-500 ppm Long-term value: (1188) NIC-594 mg/m ³ , (500) NIC-250 ppm BEI

64-17-5 ethanol

PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1880 mg/m ³ , 1000 ppm

• Ingredients with biological limit values:

67-64-1 acetone

BEI	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
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- *Additional information:* The lists that were valid during the creation were used as basis.

- **Exposure controls**
- **Personal protective equipment:**
 - *General protective and hygienic measures:*
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.

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Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

• **Breathing equipment:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

• **Protection of hands:** Not required.

• **Material of gloves:** Butyl rubber, BR

• **Penetration time of glove material**

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

• **Eye protection:**



Tightly sealed goggles

• **Body protection:** Protective work clothing

9 Physical and chemical properties

• **Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

Form: Fluid

Color: Beige

• **Odor:** Solvent-like

• **Odour threshold:** Not determined.

• **pH-value at 20 °C (68 °F):** 7

• **Change in condition**

Boiling point/Boiling range: 55 °C (131 °F)

• **Flash point:** -19 °C (-2 °F)

• **Flammability (solid, gaseous):** Not applicable.

• **Ignition temperature:** 425 °C (797 °F)

• **Decomposition temperature:** Not determined.

• **Auto igniting:** Product is not selfigniting.

• **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

• **Explosion limits:**

Lower: 3.1 Vol %

Upper: 16.0 Vol %

• **Vapor pressure at 20 °C (68 °F):** 220 hPa (165 mm Hg)

• **Density at 20 °C (68 °F):** 1.5 g/cm³ (12.518 lbs/gal)

• **Relative density** Not determined.

• **Vapour density** Not determined.

• **Evaporation rate** Not determined.

• **Solubility in / Miscibility with**

Water: Partly miscible.

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- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic at 20 °C (68 °F):* 69100 mPas
 - Kinematic:* Not determined.
- **Solvent content:**
 - Organic solvents:* 16.1 %
 - Water:* 7.0 %
 - VOC Content:* 12.5 %
 - 5.00 %
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· *LD/LC50 values that are relevant for classification:*

79-20-9 methyl acetate

Oral	LD50	6970 mg/kg (rat)
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67-64-1 acetone

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (Ratte)
Inhalative	LC50/48 h	76 mg/l (rat)

64-17-5 ethanol

Oral	LD50	5560 mg/kg (mee)
		3450 mg/kg (mou)
		7060 mg/kg (rat)
		6300 mg/kg (rabbit)
Inhalative	LC50/48 h	20000 mg/l (rat)

- *Primary irritant effect:*
- *on the skin:* No irritant effect.
- *on the eye:* No irritating effect.
- *Sensitization:* No sensitizing effects known.

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· **Additional toxicological information:**

· **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
9003-20-7	Polyvinylacetat	3
64-17-5	ethanol	1

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (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.

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Liquid product must not be disposed of together with household garbage. Do not allow product to reach sewage system. If product has aged or solidified conventional means of disposal are acceptable.

· **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**

· **DOT, ADR, IMDG, IATA**

UN1133

· **UN proper shipping name**

· **DOT**

Adhesives

· **ADR**

1133 Adhesives, special provision 640H

· **IMDG, IATA**

ADHESIVES

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· Transport hazard class(es)**· DOT**

- *Class* 3 Flammable liquids
- *Label* 3

· ADR, IMDG, IATA

- *Class* 3 Flammable liquids
- *Label* 3
- **Packing group**
- **DOT, ADR, IMDG, IATA** III
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Warning: Flammable liquids
- **Danger code (Kemler):** 33
- **EMS Number:** F-E,S-D
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· Transport/Additional information:

- *ADR*
- *Excepted quantities (EQ)* Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

- *IMDG*
- *Limited quantities (LQ)* 5L
- *Excepted quantities (EQ)* Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

- **UN "Model Regulation":** UN1133, Adhesives, special provision 640H, 3, III

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- *Sara*

- *Section 355 (extremely hazardous substances):*

None of the ingredient is listed.

- *Section 313 (Specific toxic chemical listings):*

None of the ingredients is listed.

- *TSCA (Toxic Substances Control Act):*

All ingredients are listed.

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- *Proposition 65*

- *Chemicals known to cause cancer:*

None of the ingredients is listed.

- *Chemicals known to cause reproductive toxicity for females:*

None of the ingredients is listed.

- *Chemicals known to cause reproductive toxicity for males:*

None of the ingredients is listed.

- *Chemicals known to cause developmental toxicity:*

64-17-5 ethanol

- *Canadian Ingredient disclosure list*

- *Limit 0,1%*

64-17-5 ethanol

- *Limit 1%*

79-20-9 methyl acetate

67-64-1 acetone

- *Carcinogenity categories*

- *EPA (Environmental Protection Agency)*

67-64-1 acetone

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- *TLV (Threshold Limit Value established by ACGIH)*

67-64-1 acetone

A4

64-17-5 ethanol

A3

- *MAK (German Maximum Workplace Concentration)*

64-17-5 ethanol

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- *NIOSH-Ca (National Institute for Occupational Safety and Health)*

None of the ingredients is listed.

- **Product related hazard informations:**

- *Hazard symbols:*

The product has been classified and marked in accordance with directives on hazardous materials.

- *Safety phrases:* Keep out of the reach of children.

- **National regulations:**

- *Technical instructions (air):*

Class	Share in %
Wasser	2,5-10
NK	10-25

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

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.

- **Department issuing SDS:** Technical Department

- **Contact:**

Dr. Frank Gahlmann +49-(0)2739-301165 gahlmann@stauf.de

Wolfgang Stauf, Phone 901-820-0007, Email wolfgang.stauf@staufusa.com

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USA

Safety Data Sheet
acc. to OSHA HCS

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- *Date of preparation / last revision* 10/27/2014 / 24

- *Abbreviations and acronyms:*

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Carc. 1A: Carcinogenicity, Hazard Category 1A

USA