

Article No.: 26222  
Print date 02.09.2020  
Version 4.1

KIWOFIX SX 500 ML SD  
Revision date 11.08.2020  
Issue date 11.08.2020

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

### 1.1. Product identifier

Article No. (manufacturer/supplier): 26222  
Trade name/designation: KIWOFIX SX 500 ML SD

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

#### Relevant identified uses

Adhesive  
Reserved for industrial and professional use.

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

#### supplier (manufacturer/importer/downstream user/distributor)

Kissel + Wolf GmbH  
In den Ziegelwiesen 6 Telephone: 49 6222 578-0  
69168 Wiesloch Telefax: 49 6222 578-100  
Germany E-mail: info@kiwo.de

#### Department responsible for information:

RA - Regulatory Affairs  
E-mail ra@kiwo.de

### 1.4. Emergency telephone number

Emergency telephone number +49 6222 578 219

## 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].

Aerosol 1 / H222	Aerosol	Extremely flammable aerosol.
Aerosol 1 / H229	Aerosol	Pressurised container: May burst if heated.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
STOT SE 3 / H336	STOT-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

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

##### Precautionary Statements

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.  
P251 Do not pierce or burn, even after use.  
P271 Use only outdoors or in a well-ventilated area.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 Dispose of contents / container in accordance with local / national regulations.  
P102 Keep out of reach of children.

##### Hazard components for labelling

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics  
hydrocarbons, C6, isoalkanes, <5% n-hexane

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**Supplemental hazard information**  
not applicable

**Signal word**

- 2.3. **Other hazards**  
No information available.  
**Signal word**

### SECTION 3: Composition / information on ingredients

3.2. **Mixtures**

**Description** Mixture of components, as listed below, with nonhazardous constituents

**Hazardous ingredients**

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

EC No.	REACH No.	weight-%
CAS No.	Designation	
INDEX No.	classification: // Remark	
204-065-8		
115-10-6	dimethyl ether	35 - 50
603-019-00-8	Flam. Gas 1 H220 / Press. Gas	
927-510-4	01-2119475515-33	
64742-49-0	hydrocarbons, C7, n-alkanes, isoalkanes, cyclics Flam. Liq. 2 H225 / Skin Irrit. 2 H315 / Asp. Tox. 1 H304 / STOT SE 3 H336 / Aquatic Chronic 2 H411	20 - 25
931-254-9	01-2119484651-34	
64742-49-0	hydrocarbons, C6, isoalkanes, <5% n-hexane Flam. Liq. 2 H225 / Skin Irrit. 2 H315 / Asp. Tox. 1 H304 / STOT SE 3 H336 / Aquatic Chronic 2 H411	15 - 20

**Additional information**

Full text of classification: 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. In case of irregular breathing or respiratory arrest provide artificial respiration.

**Following skin contact**

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

**After eye contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**After ingestion**

Seek medical advice immediately. 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**

First Aid, decontamination, treatment of symptoms.

### SECTION 5: Firefighting measures

5.1. **Extinguishing media**

**Suitable extinguishing media**

Carbon dioxide Water mist Foam

**Unsuitable extinguishing media**

strong water jet

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5.2. **Special hazards arising from the substance or mixture**  
Heating causes rise in pressure with risk of bursting. Gases/vapours, toxic

5.3. **Advice for firefighters**  
Provide a conveniently located respiratory protective device.

**Additional information**

The danger areas must be delimited and identified using relevant warning and safety signs. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

**SECTION 6: Accidental release measures**

6.1. **Personal precautions, protective equipment and emergency procedures**

Keep away from sources of ignition. Ventilate affected area. Remove persons to safety. 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. Provide good ventilation.

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).

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.

Container under pressure. Protect from direct exposure to sunlight and temperatures exceeding 50 °C. Do not open with force, even when empty. Technische Regeln Druckbehälter (TRB), Technische Regeln Druckgase (TRG): 300

Avoid contact with eyes and skin. Do not inhale vapours or mist. Do not eat, drink or smoke when using this product. Personal protection equipment: refer to section 8.

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

**Technical measures and storage conditions**

Keep container tightly closed in a cool, well-ventilated place.

**Requirements for storage rooms and vessels**

Protect from sunlight. Store in a well-ventilated place.

**Hints on joint storage**

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

**Further information**

VCI-storage class, see Chapter 15

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**

dimethyl ether

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

TRGS 900, AGW, TWA: 1900 mg/m<sup>3</sup>; 1000 ppm

TRGS 900, AGW, STEL: 15200 mg/m<sup>3</sup>; 8000 ppm

**Additional information**

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

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## 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.

### Personal protection equipment

#### **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 to GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

#### **Hand protection**

Chemical resistant protective gloves: EN ISO 374  
Recommendation for contact by spatter: Protection Index 2  
Permeation time >30 min., e.g. butyl rubber 0,4 mm  
Recommendation for direct contact: Protection Index 6  
Permeation time >480 min., e.g. nitrile rubber 0,4 mm

#### **Eye/face protection**

Wear closed protection glasses. DIN EN 166

#### **Body protection**

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 section 7. No additional measures necessary.

## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

#### **Appearance:**

**Physical state:** gaseous  
**Colour:** depending on coloration

**Odour:** typical

**Odour threshold:** not applicable

**pH at 20 °C:** not applicable

**Melting point/freezing point:** not applicable

**Initial boiling point and boiling range:** 63 °C

**Flash point:** -41 °C  
Method: DIN 53213

**Evaporation rate:** not applicable

#### **flammability**

**Burning time (s):** not applicable

#### **Upper/lower flammability or explosive limits:**

**Lower explosion limit:** 0,7 Vol-%

**Upper explosion limit:** 18,6 Vol-%

**Vapour pressure at 20 °C:** 4000 mbar

**Vapour density:** not applicable

#### **Relative density:**

**Density at 20 °C:** 0,71 g/cm<sup>3</sup>

#### **Solubility(ies):**

**Water solubility (g/L) at 20 °C:** insoluble

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

**Auto-ignition temperature:** 200 °C

**Decomposition temperature:** not applicable

**Viscosity at °C:** na

**Decomposition temperature (°C):** 0

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<b>Explosive properties:</b>	<b>not applicable</b>
<b>Oxidising properties:</b>	<b>not applicable</b>
9.2. <b>Other information</b>	
<b>Solid content (%):</b>	<b>48,00 weight-%</b>
<b>solvent content:</b>	
<b>Organic solvents:</b>	<b>78 weight-%</b>
<b>Water:</b>	<b>0 weight-%</b>
<b>Solvent separation test (%):</b>	<b>&lt; 3 weight-% (ADR/RID)</b>

#### **SECTION 10: Stability and reactivity**

##### 10.1. **Reactivity**

No information available.

##### 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**

Protect from heat and direct sunlight.

##### 10.5. **Incompatible materials**

not applicable

##### 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**

hydrocarbons, C6, isoalkanes, <5% n-hexane

oral, LD50, Rat: > 5000 mg/kg

inhalative (vapours), LC50, Rat: > 20 mg/L (4 h)

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

oral, LD50, Rat: > 5840 mg/kg

###### **Skin corrosion/irritation; Serious eye damage/eye irritation**

Causes skin irritation.

###### **Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.

###### **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Based on available data, the classification criteria are not met.

###### **STOT-single exposure; STOT-repeated exposure**

May cause drowsiness or dizziness.

###### **Aspiration hazard**

Based on available data, the classification criteria are not met.

###### **Practical experience/human evidence**

Prolonged or repeated contact with the preparation can lead to irritations of mucous membranes and of skin such as redness, formation of blebs, dermatitis, etc..In case of inhalation dizziness, Nausea Inhalation causes narcotic effects/intoxication.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**

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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 .

**SECTION 12: Ecological information**

Classification according to Regulation (EC) No 1272/2008 [CLP]  
Do not store at public landfills.

**12.1. Toxicity**

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics  
Fish toxicity, LC50 (96 h)

**Long-term Ecotoxicity**

Toxic to aquatic life with long lasting effects.

**12.2. Persistence and degradability**

Toxicological data are not available.

**12.3. Bioaccumulative potential**

Toxicological data are not available.

**Bioconcentration factor (BCF)**

Toxicological data are not available.

**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**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product  
Recommendation**

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

080409\* Waste adhesives and sealants containing organic solvents or other dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Appropriate disposal / Package  
Recommendation**

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

**SECTION 14: Transport information**

**14.1. UN number**

UN 1950

**14.2. UN proper shipping name**

Land transport (ADR/RID): Aerosols, flammable

Sea transport (IMDG): AEROSOLS

Air transport (ICAO-TI / IATA-DGR): Aerosols, flammable

**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**

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

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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

**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): 588,470

**Observe in addition any 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).

calculated with mixing rule

**Substance/product listed in the following inventories:**

Listed in TOXIC SUBSTANCES CONTROL ACT (TSCA)

**15.2. Chemical Safety Assessment**

**For the following substances of this mixture a chemical safety assessment has been carried out:**

EC No. CAS No.	Designation	REACH No.
927-510-4 64742-49-0	hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	01-2119475515-33
931-254-9 64742-49-0	hydrocarbons, C6, isoalkanes, <5% n-hexane	01-2119484651-34

**SECTION 16: Other information**

**Full text of classification in section 3:**

Flam. Gas 1 / H220	flammable gases	Extremely flammable gas.
Press. Gas	Gases under pressure	
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

**Classification procedure**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Aerosol 1	Aerosol	On basis of test data.
Aerosol 1	Aerosol	On basis of test data.
Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.
Aquatic Chronic 2	Hazardous to the aquatic environment	Calculation method.

**Abbreviations and acronyms**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic

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

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DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

**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 section 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.