



Safety Data Sheet according to (EC) No 1907/2006 as amended

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LOCTITE SF 7100 known as Loctite 7100

SDS No. : 228588

V003.0

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

1.1. Product identifier

LOCTITE SF 7100 known as Loctite 7100

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

Intended use:

Leak Detector

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 211 797 0

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or www.henkel-adhesives.com.

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Serious eye irritation

Category 2

H319 Causes serious eye irritation.

Aerosols

Category 3

H229 Pressurized container: May burst if heated.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Signal word:

Warning

| | |
|--|---|
| Hazard statement: | H229 Pressurized container: May burst if heated. H319 Causes serious eye irritation. |
| Precautionary statement: | P251 Do not pierce or burn, even after use. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50.DEGREE.C/122.DEGREE.F. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P102 Keep out of reach of children. |
| Precautionary statement: Response | P337+P313 If eye irritation persists: Get medical advice/attention. |

2.3. Other hazards

None if used properly.

Following substances are present in a concentration \geq the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration \geq the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

| Hazardous components CAS-No. EC Number REACH-Reg No. | Concentration | Classification | Specific Conc. Limits, M-factors and ATEs | Add. Information |
|---|---------------|--|---|------------------|
| Poly(oxy-1,2-ethanediyl), α -(carboxymethyl)- ω -hydroxy-, C12-14-alkyl ethers 220622-96-8 | 2,5- < 3 % | Eye Dam. 1, H318 | | |
| ammonia, aqueous solution 1336-21-6 215-647-6 01-2119488876-14 | 0,25- < 1 % | Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Skin Corr. 1B, H314 Acute Tox. 4, Inhalation, H332 STOT SE 3, H335 | STOT SE 3; H335; C \geq 5 % ===== M acute = 1 ===== inhalation: | EU OEL |

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.

For full text of the H - statements and other abbreviations see section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

EYE: Irritation, conjunctivitis.

Prolonged or repeated contact may cause skin irritation.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

None known

5.2. Special hazards arising from the substance or mixture

Oxides of carbon, oxides of nitrogen, irritating organic vapors.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional information:

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to Section 13.

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact.

See advice in section 8

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Good industrial hygiene practices should be observed.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.

Store in a cool, well-ventilated place.

Keep away from heat and direct sunlight.

Refer to Technical Data Sheet

7.3. Specific end use(s)

Leak Detector

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational Exposure Limits**Valid for
Germany

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|-------------------------------------|--|-----------------|
| Ammonia, aqueous solution 1336-21-6 [AMMONIA, ANHYDROUS] | 50 | 36 | Short Term Exposure Limit (STEL): | Indicative | ECLTV |
| Ammonia, aqueous solution 1336-21-6 [AMMONIA, ANHYDROUS] | 20 | 14 | Time Weighted Average (TWA): | Indicative | ECLTV |
| Ammonia, aqueous solution 1336-21-6 | | | Short Term Exposure Classification: | Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages. | TRGS 900 |
| Ammonia, aqueous solution 1336-21-6 | 20 | 14 | Exposure limit(s): | 2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|--|---------------------------------|-----------------|-------------|-----|-------|--------|---------|
| | | | mg/l | ppm | mg/kg | others | |
| ammonia, aqueous solution 1336-21-6 | aqua (freshwater) | | 0,001 mg/l | | | | |
| ammonia, aqueous solution 1336-21-6 | aqua (marine water) | | 0,001 mg/l | | | | |
| ammonia, aqueous solution 1336-21-6 | aqua (intermittent releases) | | 0,0068 mg/l | | | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|--|--------------------|-------------------|--|---------------|------------------------|---------|
| ammonia, aqueous solution 1336-21-6 | Workers | inhalation | Long term exposure - systemic effects | | 47,6 mg/m ³ | |
| ammonia, aqueous solution 1336-21-6 | Workers | inhalation | Acute/short term exposure - systemic effects | | 47,6 mg/m ³ | |
| ammonia, aqueous solution 1336-21-6 | Workers | inhalation | Long term exposure - local effects | | 14 mg/m ³ | |
| ammonia, aqueous solution 1336-21-6 | Workers | Inhalation | Acute/short term exposure - local effects | | 36 mg/m ³ | |
| ammonia, aqueous solution 1336-21-6 | Workers | dermal | Long term exposure - systemic effects | | 6,8 mg/kg | |
| ammonia, aqueous solution 1336-21-6 | Workers | dermal | Acute/short term exposure - systemic effects | | 6,8 mg/kg | |
| ammonia, aqueous solution 1336-21-6 | General population | inhalation | Long term exposure - systemic effects | | 23,8 mg/m ³ | |
| ammonia, aqueous solution 1336-21-6 | General population | inhalation | Acute/short term exposure - systemic effects | | 23,8 mg/m ³ | |
| ammonia, aqueous solution 1336-21-6 | General population | inhalation | Long term exposure - local effects | | 2,8 mg/m ³ | |
| ammonia, aqueous solution 1336-21-6 | General population | inhalation | Acute/short term exposure - local effects | | 7,2 mg/m ³ | |
| ammonia, aqueous solution 1336-21-6 | General population | dermal | Long term exposure - systemic effects | | 6,8 mg/kg | |
| ammonia, aqueous solution 1336-21-6 | General population | dermal | Acute/short term exposure - systemic effects | | 6,8 mg/kg | |
| ammonia, aqueous solution 1336-21-6 | General population | oral | Long term exposure - systemic effects | | 6,8 mg/kg | |
| ammonia, aqueous solution 1336-21-6 | General population | oral | Acute/short term exposure - systemic effects | | 6,8 mg/kg | |

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Use filter A-P2 if vapours/aerosols occur which may be inhaled.

Hand protection:

The use of chemical resistant gloves such as Neoprene or Natural Rubber is recommended

Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.

Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---|
| Delivery form | liquid |
| Colour | colourless |
| Odor | characteristic |
| Physical state | liquid |
| Melting point | Not applicable, Product is a liquid |
| Initial boiling point | 100 °C (212 °F)no method / method unknown |
| Flammability | The product is not flammable. |
| Explosive limits | |
| lower | 2,6 % (V); |
| upper | 12,6 % (V); |
| | Upper/lower explosion limit |
| Flash point | 104 °C (219.2 °F) |
| Flash point | 111 °C (231.8 °F); no method / method unknown |
| Auto-ignition temperature | Not applicable, The product is not flammable. |
| Decomposition temperature | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| pH | 7,5 |
| (20 °C (68 °F); Conc.: 100 %) | |
| Viscosity (kinematic) | Currently under determination |
| Solubility (qualitative) | Miscible |
| (20 °C (68 °F); Solvent: Water) | |
| Partition coefficient: n-octanol/water | Not applicable |
| Vapour pressure | Mixture |
| (20 °C (68 °F)) | 23,0000000 hPa |
| Density | |
| (20 °C (68 °F)) | 1,017 g/cm3 None |
| Relative vapour density: | Currently under determination |
| Particle characteristics | Not applicable |
| | Product is a liquid |

9.2. Other information**9.2.1. Information with regard to physical hazard classes**

| | |
|-----------|---|
| Aerosols: | Classified as Aerosol category 3 because it does not meet the criteria for inclusion in Category 1 or Category 2. |
|-----------|---|

SECTION 10: Stability and reactivity

10.1. Reactivity

None known

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**Acute oral toxicity:**

No data available.

Acute dermal toxicity:

No data available.

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|---|--|----------|-----------------|------------------|---------|------------------|
| ammonia, aqueous solution 1336-21-6 | Acute toxicity estimate (ATE) | 6570 ppm | | 4 h | | Expert judgement |

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|---|-----------|------------------|---------|---|
| ammonia, aqueous solution 1336-21-6 | corrosive | 4 h | rabbit | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|---|-----------|------------------|---------|---------------|
| ammonia, aqueous solution 1336-21-6 | corrosive | | | not specified |

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Test type | Species | Method |
|---|-----------------|---------------|------------|---------------|
| ammonia, aqueous solution 1336-21-6 | not sensitising | not specified | guinea pig | not specified |

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|---|----------|--|--|---------|--|
| ammonia, aqueous solution 1336-21-6 | negative | bacterial reverse mutation assay (e.g Ames test) | not specified | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| ammonia, aqueous solution 1336-21-6 | negative | intraperitoneal | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Sex | Method |
|---|------------------|-------------------------|---|---------|-----|--|
| ammonia, aqueous solution 1336-21-6 | not carcinogenic | oral: feed | 104 w daily | rat | | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|---|-------------------|-----------|-------------------------|---------|---|
| ammonia, aqueous solution 1336-21-6 | NOAEL P 408 mg/kg | screening | oral: unspecified | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

STOT-single exposure:

No data available.

STOT-repeated exposure:

No data available.

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|-----------------|---------------|--|--|
| ammonia, aqueous solution 1336-21-6 | LC50 | 0,16 - 1,1 mg/l | 96 h | Salmo gairdneri (new name: Oncorhynchus mykiss) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| ammonia, aqueous solution 1336-21-6 | NOEC | < 0,048 mg/l | 31 d | Channel catfish | OECD Guideline 215 (Fish, Juvenile Growth Test) |

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|-----------|---------------|---------------|--|
| ammonia, aqueous solution 1336-21-6 | EC50 | 25,4 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|-----------|---------------|---------------|--|
| ammonia, aqueous solution 1336-21-6 | NOEC | 0,79 mg/l | 96 h | Daphnia magna | EPA OPPTS 850.1300 (Daphnid Chronic Toxicity Test) |

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|--------------|---------------|----------------------|---------------------------|
| ammonia, aqueous solution 1336-21-6 | EC50 | > 1.000 mg/l | 72 h | Skeletonema costatum | ISO 10253 (Water quality) |
| ammonia, aqueous solution 1336-21-6 | NOEC | 1.000 mg/l | 72 h | Skeletonema costatum | ISO 10253 (Water quality) |

Toxicity (microorganisms):

No data available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | LogPow | Temperature | Method |
|--|--------|-------------|---------------------------------------|
| ammonia, aqueous solution 1336-21-6 | -1,14 | | EU Method A.8 (Partition Coefficient) |

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | PBT / vPvB |
|--|---|
| ammonia, aqueous solution 1336-21-6 | According to Annex XIII to Regulation (EC) No 1907/2006, a PBT and vPvB assessment shall not be conducted for inorganic substances. |

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Product disposal:

Do not empty into drains / surface water / ground water.

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

14 06 03 Other solvents and solvent mixtures

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

14.1. UN number or ID number

| | |
|------|------|
| ADR | 1950 |
| RID | 1950 |
| ADN | 1950 |
| IMDG | 1950 |
| IATA | 1950 |

14.2. UN proper shipping name

| | |
|------|-------------------------|
| ADR | AEROSOLS |
| RID | AEROSOLS |
| ADN | AEROSOLS |
| IMDG | AEROSOLS |
| IATA | Aerosols, non-flammable |

14.3. Transport hazard class(es)

| | |
|------|-----|
| ADR | 2.2 |
| RID | 2.2 |
| ADN | 2.2 |
| IMDG | 2.2 |
| IATA | 2.2 |

14.4. Packing group

ADR
RID
ADN
IMDG
IATA

14.5. Environmental hazards

| | |
|------|----------------|
| ADR | not applicable |
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

14.6. Special precautions for user

| | |
|------|-----------------------------------|
| ADR | not applicable Tunnelcode: (E) |
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

| | |
|---|--|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021): | perfluorooctanoic acid CAS 335-67-1 |

(2010/75/EC)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Germany):

WGK: WGK 1: slightly hazardous to water (Ordinance on facilities for handling substances that are hazardous to water (AwSV))
Classification according to AwSV, Annex 1 (5.2)

Storage class according to TRGS 510: 2B

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

ED: Substance identified as having endocrine disrupting properties
EU OEL: Substance with a Union workplace exposure limit
EU EXPLD 1: Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2: Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC: Substance of very high concern (REACH Candidate List)
PBT: Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB: Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB: Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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