



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

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TEROSON BOND120 SET

SDS No. : 681926
V003.0

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

1.1. Product identifier

TEROSON BOND120 SET

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

Intended use:

adhesive and sealant for direct glazing

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):

| | |
|---|------------|
| Skin irritation | Category 2 |
| H315 Causes skin irritation. | |
| Serious eye irritation | Category 2 |
| H319 Causes serious eye irritation. | |
| Respiratory sensitizer | Category 1 |
| H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. | |
| Skin sensitizer | Category 1 |
| H317 May cause an allergic skin reaction. | |
| Specific target organ toxicity - single exposure | Category 3 |
| H335 May cause respiratory irritation. | |
| Target organ: respiratory tract irritation | |
| Specific target organ toxicity - repeated exposure | Category 2 |
| H373 May cause damage to organs through prolonged or repeated exposure. | |

2.2. Label elements

Label elements (CLP):

Hazard pictogram:**Contains**

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]

4,4'- methylenediphenyl diisocyanate

Signal word:

Danger

Hazard statement:

H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 H373 May cause damage to organs through prolonged or repeated exposure.

Supplemental information

As from 24 August 2023 adequate training is required before industrial or professional use.
 Further information: <https://www.feica.eu/PUinfo>

**Precautionary statement:
Prevention**

P260 Do not breathe dust/fume/spray.
 P280 Wear protective gloves/eye protection.

**Precautionary statement:
Response**

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

2.3. Other hazards

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

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 |
|--|---------------|---|---|------------------|
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene] 59675-67-1 | 20- 40 % | Acute Tox. 4, Inhalation, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Resp. Sens. 1, H334 STOT SE 3, H335 STOT RE 2, H373 | oral:ATE = > 5.000 mg/kg inhalation:ATE = 1,5 mg/l;dust/mist | |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 202-966-0 01-2119457014-47 | 0,1- < 1 % | Carc. 2, H351 Acute Tox. 4, Inhalation, H332 STOT RE 2, H373 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 | Eye Irrit. 2; H319; C >= 5 % Skin Irrit. 2; H315; C >= 5 % Resp. Sens. 1; H334; C >= 0,1 % STOT SE 3; H335; C >= 5 % | |

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:

Fresh air, oxygen supply, warmth; seek specialist medical attention.

Delayed effects possible after inhalation.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing. If necessary, see a dermatologist.

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

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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:

All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In case of fire toxic gases can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment.

Avoid contact with skin and eyes.

Keep unprotected persons away.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Remove mechanically.

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.

Temperatures between + 5 °C and + 35 °C

7.3. Specific end use(s)

adhesive and sealant for direct glazing

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 |
|---|-----|-------------------|--|--|-----------------|
| Limestone 1317-65-3 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Limestone 1317-65-3 | | 1,25 | Exposure limit(s): | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Limestone 1317-65-3 | | 10 | 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 |
| Carbon black 1333-86-4 | | 1,25 | Exposure limit(s): | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Carbon black 1333-86-4 | | 10 | 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 |
| Carbon black 1333-86-4 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Carbon black 1333-86-4 | | 1,25 | Exposure limit(s): | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Carbon black 1333-86-4 | | 10 | 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 |
| Carbon black 1333-86-4 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| 4,4'-Methylenediphenyl diisocyanate 101-68-8 | | | Skin designation: | Can be absorbed through the skin. | TRGS 900 |
| 4,4'-Methylenediphenyl diisocyanate 101-68-8 | | | STEL (Short Term Exposure Limit) factor: | 1 Substance listed with both Peak factor and STEL factor. The Peak factor is supplied with the AGW values. | TRGS 900 |
| 4,4'-Methylenediphenyl diisocyanate 101-68-8 | | 0,05 | 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 |
| 4,4'-Methylenediphenyl diisocyanate 101-68-8 | | | 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 |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|--|------------------------------|-----------------|--------------|-----|------------|--------|----------------------------------|
| | | | mg/l | ppm | mg/kg | others | |
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | aqua (freshwater) | | 0,0037 mg/l | | | | |
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | aqua (intermittent releases) | | 0,037 mg/l | | | | |
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | aqua (marine water) | | 0,00037 mg/l | | | | |
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | sediment (freshwater) | | | | 11,7 mg/kg | | |
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | sediment (freshwater) | | | | 1,17 mg/kg | | |
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | Soil | | | | 2,33 mg/kg | | |
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | Predator | | | | | | no potential for bioaccumulation |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|--|--------------------|-------------------|---|---------------|-------------------------|----------------------------------|
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | Workers | inhalation | Long term exposure - local effects | | 0,05 mg/m ³ | no potential for bioaccumulation |
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | Workers | inhalation | Acute/short term exposure - local effects | | 0,1 mg/m ³ | no potential for bioaccumulation |
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | General population | inhalation | Long term exposure - local effects | | 0,025 mg/m ³ | no potential for bioaccumulation |
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | General population | inhalation | Acute/short term exposure - local effects | | 0,05 mg/m ³ | no potential for bioaccumulation |

Biological Exposure Indices:

| Ingredient [Regulated substance] | Parameters | Biological specimen | Sampling time | Conc. | Basis of biol. exposure index | Remark | Additional Information |
|---|----------------------------|---------------------|------------------------------|---------|-------------------------------|---|------------------------|
| 4,4'-Methylenediphenyl diisocyanate 101-68-8 | 4,4-Diaminodiphenylmethane | Creatinine in urine | Sampling time: End of shift. | 10 µg/g | DE BAT | BAT values reflect the total physical load of workplace substances absorbed through inhalation, dermally, etc. With occupational exposure to MDI, parameter 4,4'-Diaminodiphenylmethane (MDA) in the urine covers all components of a complex MDI mixture, since both monomers and oligomers of the MDI are degraded independent of the exposure path of the monomeric MDI. In contrast, the MAK value for MDI takes into account only the monomer MDI portion. | |

8.2. Exposure controls:

Engineering controls:

Use only in well ventilated areas.

Respiratory protection:

The product should only be used at workplaces with intensive ventilation/extraction.

If intensive ventilation/extraction is not possible respiratory protection equipment with ABEK P2 filter (EN 14387) should be worn.

Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:
Goggles which can be tightly sealed.
Protective eye equipment should conform to EN166.

Skin protection:
Wear protective equipment.
Protective clothing that covers arms and legs.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:
Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway), or equivalent.
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 | paste |
| Colour | black |
| Odor | Faintly, specific |
| Physical state | solid |
| Melting point | Not applicable, Determination technically not possible |
| Solidification temperature | Not applicable, Product is a solid. |
| Initial boiling point | Not applicable, Decomposes > 140°C (284°F). |
| Flammability | The product is not flammable. |
| Explosive limits | Not applicable, Product is a solid. |
| Flash point | > 200 °C (> 392 °F) |
| Auto-ignition temperature | Not applicable, Product is a solid. |
| Decomposition temperature | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| pH | Not applicable, Product reacts with water. |
| Viscosity (kinematic) | Not applicable, Product is a solid. |
| Viscosity, dynamic (; 23 °C (73.4 °F)) | 3.500.000 mPa.s Viscosity Physica; HT-Method |
| Solubility (qualitative) (20 °C (68 °F); Solvent: Water) | Insoluble |
| Partition coefficient: n-octanol/water | Not applicable |
| Vapour pressure (20 °C (68 °F)) | Mixture < 0,1 hPa |
| Density (20 °C (68 °F)) | 1,28 - 1,34 g/ml density w. Waterdisplacemant; HT-method |
| Relative vapour density: | Not applicable, Product is a solid. |
| Particle characteristics | Not applicable, mixture is a paste. |

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

Reaction with water, alcohols, amines.
Reacts with water: Pressure built up in closed vessel (CO₂).

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Humidity

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

At higher temperatures isocyanate may be released.

Carbon dioxide is generated under contact with moisture, leading to pressure in the cans. Danger of cans bursting!

SECTION 11: Toxicological information**General toxicological information:**

Persons suffering from allergic reactions to isocyanates should avoid contact with the product.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**Acute oral 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 | Species | Method |
|---|--|---------------|---------|------------------|
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3- propanetriol (3:1), polymer with 1,1'- methylenebis[4- isocyanatobenzene] 59675-67-1 | Acute toxicity estimate (ATE) | > 5.000 mg/kg | | Expert judgement |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | LD50 | > 2.000 mg/kg | rat | other guideline: |

Acute dermal 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 | Species | Method |
|---|---------------|---------------|---------|--|
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3- propanetriol (3:1), polymer with 1,1'- methylenebis[4- isocyanatobenzene] 59675-67-1 | LD50 | > 9.400 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | LD50 | > 9.400 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |

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 |
|---|--|----------|-----------------|------------------|---------|------------------|
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3- propanetriol (3:1), polymer with 1,1'- methylenebis[4- isocyanatobenzene] 59675-67-1 | Acute toxicity estimate (ATE) | 1,5 mg/l | dust/mist | 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 |
|---|------------|------------------|---------|--|
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

Serious eye damage/irritation:

No data available.

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 |
|---|-------------|---------------------------------------|------------|--|
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3- propanetriol (3:1), polymer with 1,1'- methylenebis[4- isocyanatobenzene] 59675-67-1 | sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3- propanetriol (3:1), polymer with 1,1'- methylenebis[4- isocyanatobenzene] 59675-67-1 | sensitising | Respiratory sensitisation | guinea pig | not specified |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | sensitising | Respiratory sensitisation | 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 |
|---|----------|--|--------------------------------------|---------|--|
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene] 59675-67-1 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | EU Method B.13/14 (Mutagenicity) |
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene] 59675-67-1 | negative | inhalation | | rat | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | negative | inhalation | | rat | 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 |
|---|--------------|----------------------|--|---------|-------------|--|
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | carcinogenic | inhalation: aerosol | 2 y 6 h/d | rat | male/female | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

Reproductive toxicity:

No data available.

STOT-single exposure:

No data available.

STOT-repeated exposure:

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

| Hazardous substances CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---|-------------------|----------------------|--|---------|--|
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene] 59675-67-1 | NOAEL 0,0002 mg/l | inhalation: aerosol | 2 years 6 h/d; 5 d/w | rat | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| 4,4'- methylenediphenyl diisocyanate 101-68-8 | NOAEL 0,0002 mg/l | inhalation: aerosol | main: 2 y; satellite:1 y 6 h/d; 5 d/w | rat | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

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, soil or bodies of water.

Do not empty into drains, soil or bodies of 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 |
|--|---------------|--------------|---------------|---------------|--|
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene] 59675-67-1 | LC50 | > 1.000 mg/l | 96 h | not specified | not specified |
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | LL50 | > 100 mg/l | 96 h | Danio rerio | OECD Guideline 203 (Fish, Acute Toxicity 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 |
|--|---------------|--------------|---------------|---------------|--|
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene] 59675-67-1 | EC50 | > 1.000 mg/l | 48 h | not specified | not specified |
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | EC50 | > 100 mg/l | 48 h | Daphnia magna | EU Method C.2 (Acute Toxicity for Daphnia) |

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 |
|---|---------------|---------|---------------|---------------|---|
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | NOEC | 10 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction 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 |
|--|---------------|--------------|---------------|-------------------------|---|
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene] 59675-67-1 | EC50 | > 1.640 mg/l | 72 h | not specified | not specified |
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | EL50 | > 100 mg/l | 72 h | Desmodesmus subspicatus | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | NOELR | 100 mg/l | 72 h | Desmodesmus subspicatus | OECD Guideline 201 (Alga, Growth Inhibition Test) |

Toxicity (microorganisms):

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 |
|--|---------------|--------------|---------------|---|--|
| Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene] 59675-67-1 | IC50 | > 100 mg/l | 3 h | activated sludge | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | EC50 | > 1.000 mg/l | 3 h | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

12.2. Persistence and degradability

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

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|---|----------------------------|-----------|---------------|---------------|---|
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | not readily biodegradable. | aerobic | 0 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |

12.3. Bioaccumulative potential

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

| Hazardous substances CAS-No. | Bioconcentration factor (BCF) | Exposure time | Temperature | Species | Method |
|---|-------------------------------|---------------|-------------|-----------------|--|
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | 92 - 200 | 28 d | | Cyprinus carpio | OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test) |

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 |
|---|--------|-------------|---|
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | 4,51 | 22 °C | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |

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 |
|---|---|
| 4,4'-methylenediphenyl diisocyanate 101-68-8 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

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:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

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.

08 05 01

SECTION 14: Transport information

- 14.1. UN number or ID number**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.2. UN proper shipping name**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.3. Transport hazard class(es)**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.4. Packing group**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.5. Environmental hazards**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.6. Special precautions for user**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 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): | benzo[a]pyrene CAS 50-32-8 Benzo(k)fluoranthene CAS 207-08-9 Benzo(b)fluoranthene CAS 205-99-2 |

VOC content 0,1 %
(2010/75/EU)

15.2. Chemical safety assessment

A chemical safety assessment has 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)

BG regulations, rules, infos:

BG data sheet: BGI 524 Hazardous substances: polyurethane production and processing / isocyanates (M 044)

Storage class according to TRGS 510: 11

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:

H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 H351 Suspected of causing cancer.
 H373 May cause damage to organs through prolonged or repeated exposure.

| | |
|-------------|---|
| 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:

This Safety Data Sheet has been produced for sales from Henkel to parties purchasing from Henkel, is based on Regulation (EC) No 1907/2006 and provides information in accordance with applicable regulations of the European Union only. In that respect, no statement, warranty or representation of any kind is given as to compliance with any statutory laws or regulations of any other jurisdiction or territory other than the European Union. When exporting to territories other than the European Union, please consult with the respective Safety Data Sheet of the concerned territory to ensure compliance or liaise with Henkel's Product Safety and Regulatory Affairs Department (SDSinfo.Adhesive@henkel.com) prior to export to other territories than the European Union.

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Dear Customer,

Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative. We recommend to use a non-personal email address (e.g. SDS@your_company.com).

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.



Safety Data Sheet according to (EC) No 1907/2006 as amended Page 1 of 27

TEROSON BOND120 SET

SDS No. : 284600
V003.0

Revision: 09.06.2023
printing date: 10.07.2023

Replaces version from: 08.06.2023

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

1.1. Product identifier

TEROSON BOND120 SET

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

Intended use:

Primer

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

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

SDSinfo.Adhesive@henkel.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):

| | |
|--|------------|
| Flammable liquids | Category 2 |
| H225 Highly flammable liquid and vapour. | |
| Serious eye irritation | Category 2 |
| H319 Causes serious eye irritation. | |
| Specific target organ toxicity - single exposure | Category 3 |
| H336 May cause drowsiness or dizziness. | |
| Target organ: Central nervous system | |

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains

Butanone

Ethyl acetate

| | |
|--|---|
| Signal word: | Danger |
| Hazard statement: | H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. |
| Supplemental information | EUH066 Repeated exposure may cause skin dryness or cracking. |
| Precautionary statement: Prevention | P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing vapors. P280 Wear protective gloves/eye protection. |
| Precautionary statement: Response | P370+P378 In case of fire: Use CO ₂ , dry chemical, or foam for extinction. |

2.3. Other hazards

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 |
|---|---------------|--|--|------------------|
| Butanone 78-93-3 201-159-0 01-2119457290-43 | 20- 40 % | STOT SE 3, H336 Eye Irrit. 2, H319 Flam. Liq. 2, H225 | | EU OEL |
| Ethyl acetate 141-78-6 205-500-4 01-2119475103-46 | 20- 40 % | Flam. Liq. 2, H225 STOT SE 3, H336 Eye Irrit. 2, H319 | | EU OEL |
| n-butyl acetate 123-86-4 204-658-1 01-2119485493-29 | 5- < 10 % | Flam. Liq. 3, H226 STOT SE 3, H336 | | EU OEL |
| Phenol, 4-isocyanato-, phosphorothioat 4151-51-3 223-981-9 01-2119948848-16 | 1- < 5 % | Acute Tox. 4, Oral, H302 | oral:ATE = 676 mg/kg inhalation:ATE = 5,7211 mg/l; | |
| 1,3-Diisocyanatomethylbenzene homopolymer 9017-01-0 01-2119950331-47 | 0,1- < 1 % | Skin Sens. 1, H317 | | |
| 2,4-Toluene diisocyanate, homopolymer 26006-20-2 | 0,1- < 1 % | Skin Sens. 1, H317 Acute Tox. 4, Inhalation, H332 Eye Irrit. 2, H319 | dermal:ATE = > 5.000 mg/kg | |
| Acrylic acid 79-10-7 201-177-9 01-2119452449-31 | 0,1- < 1 % | Acute Tox. 4, Dermal, H312 Skin Corr. 1A, H314 Flam. Liq. 3, H226 Acute Tox. 4, Oral, H302 Acute Tox. 4, Inhalation, H332 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 STOT SE 3, H335 Eye Dam. 1, H318 | STOT SE 3; H335; C >= 1 % ===== M acute = 1 ===== dermal:ATE = 1.100 mg/kg inhalation:ATE = 11 mg/l; vapour | EU OEL |
| 4-isocyanatosulphonyltoluene 4083-64-1 223-810-8 01-2119980050-47 | 0,1- < 1 % | Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 | Eye Irrit. 2; H319; C >= 5 % STOT SE 3; H335; C >= 5 % Skin Irrit. 2; H315; C >= 5 % | |

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, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing. If necessary, see a dermatologist.

Eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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.

An allergic reaction cannot be excluded after repeated skin contact.

Repeated exposure may cause skin dryness or cracking.

Vapors may cause drowsiness and dizziness.

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:

Water jet (solvent-containing product).

5.2. Special hazards arising from the substance or mixture

In case of fire toxic gases can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment.

Avoid contact with skin and eyes.

Keep unprotected persons away.

Danger of slipping on spilled product.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Avoid open flames and sources of ignition.

Use explosion proof electric equipment.

Use only non-sparking tools.

Ground/bond container and receiving equipment.

Take precautionary measures against static discharge.

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.

Storage at 5 to 25°C is recommended.

Keep container in a well ventilated place.

7.3. Specific end use(s)

Primer

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 |
|--|-----|-------------------|-------------------------------------|--|-----------------|
| Butanone 78-93-3 [BUTANONE] | 200 | 600 | Time Weighted Average (TWA): | Indicative | ECLTV |
| Butanone 78-93-3 [BUTANONE] | 300 | 900 | Short Term Exposure Limit (STEL): | Indicative | ECLTV |
| Butanone 78-93-3 | | | Skin designation: | Can be absorbed through the skin. | TRGS 900 |
| Butanone 78-93-3 | 200 | 600 | Exposure limit(s): | 1 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Butanone 78-93-3 | | | 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 |
| Ethyl acetate 141-78-6 [ETHYL ACETATE] | 200 | 734 | Time Weighted Average (TWA): | Indicative | ECLTV |
| Ethyl acetate 141-78-6 [ETHYL ACETATE] | 400 | 1.468 | Short Term Exposure Limit (STEL): | Indicative | ECLTV |
| Ethyl acetate 141-78-6 | | | 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 |
| Ethyl acetate 141-78-6 | 200 | 730 | 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 |
| Carbon black 1333-86-4 | | 1,25 | Exposure limit(s): | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Carbon black 1333-86-4 | | 10 | 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 |
| Carbon black 1333-86-4 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| n-Butyl acetate 123-86-4 | 62 | 300 | 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 |
| n-Butyl acetate 123-86-4 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| n-Butyl acetate 123-86-4 [N-BUTYL ACETATE] | 150 | 723 | Short Term Exposure Limit (STEL): | Indicative | ECLTV |
| n-Butyl acetate 123-86-4 [N-BUTYL ACETATE] | 50 | 241 | Time Weighted Average (TWA): | Indicative | ECLTV |

| | | | | | |
|---|----|----|-------------------------------------|--|----------|
| Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] | 10 | 29 | Time Weighted Average (TWA): | Indicative | ECLTV |
| Acrylic acid 79-10-7 [ACRYLIC ACID (PROP-2-ENOIC ACID)] | 20 | 59 | Short Term Exposure Limit (STEL): | Indicative | ECLTV |
| Acrylic acid 79-10-7 | 10 | 30 | Exposure limit(s): | 1 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Acrylic acid 79-10-7 | | | 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 |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|---|------------------------------------|--------------------|------------|-----|-----------------|--------|-------------------------------------|
| | | | mg/l | ppm | mg/kg | others | |
| Butanone 78-93-3 | aqua (freshwater) | | 55,8 mg/l | | | | |
| Butanone 78-93-3 | aqua (marine water) | | 55,8 mg/l | | | | |
| Butanone 78-93-3 | aqua (intermittent releases) | | 55,8 mg/l | | | | |
| Butanone 78-93-3 | sewage treatment plant (STP) | | 709 mg/l | | | | |
| Butanone 78-93-3 | sediment (freshwater) | | | | 284,74 mg/kg | | |
| Butanone 78-93-3 | sediment (marine water) | | | | 284,7 mg/kg | | |
| Butanone 78-93-3 | Soil | | | | 22,5 mg/kg | | |
| Butanone 78-93-3 | oral | | | | 1000 mg/kg | | |
| Ethyl acetate 141-78-6 | aqua (freshwater) | | 0,24 mg/l | | | | |
| Ethyl acetate 141-78-6 | aqua (marine water) | | 0,024 mg/l | | | | |
| Ethyl acetate 141-78-6 | aqua (intermittent releases) | | 1,65 mg/l | | | | |
| Ethyl acetate 141-78-6 | sewage treatment plant (STP) | | 650 mg/l | | | | |
| Ethyl acetate 141-78-6 | sediment (freshwater) | | | | 1,15 mg/kg | | |
| Ethyl acetate 141-78-6 | sediment (marine water) | | | | 0,115 mg/kg | | |
| Ethyl acetate 141-78-6 | Air | | | | | | no hazard identified |
| Ethyl acetate 141-78-6 | Soil | | | | 0,148 mg/kg | | |
| Ethyl acetate 141-78-6 | oral | | | | 200 mg/kg | | |
| n-Butyl acetate 123-86-4 | aqua (freshwater) | | 0,18 mg/l | | | | |
| n-Butyl acetate 123-86-4 | aqua (marine water) | | 0,018 mg/l | | | | |
| n-Butyl acetate 123-86-4 | aqua (intermittent releases) | | 0,36 mg/l | | | | |
| n-Butyl acetate 123-86-4 | sewage treatment plant (STP) | | 35,6 mg/l | | | | |
| n-Butyl acetate 123-86-4 | sediment (freshwater) | | | | 0,981 mg/kg | | |
| n-Butyl acetate 123-86-4 | sediment (marine water) | | | | 0,0981 mg/kg | | |
| n-Butyl acetate 123-86-4 | Soil | | | | 0,0903 mg/kg | | |
| n-Butyl acetate 123-86-4 | Air | | | | | | no hazard identified |
| n-Butyl acetate 123-86-4 | Predator | | | | | | no potential for bioaccumulation |
| Tris(p-isocyanatophenyl) thiophosphate 4151-51-3 | aqua (freshwater) | | 0,1 mg/l | | | | |
| Tris(p-isocyanatophenyl) thiophosphate 4151-51-3 | aqua (marine water) | | 0,01 mg/l | | | | |
| Tris(p-isocyanatophenyl) thiophosphate 4151-51-3 | aqua (intermittent releases) | | 1 mg/l | | | | |
| Tris(p-isocyanatophenyl) thiophosphate 4151-51-3 | sewage treatment plant (STP) | | 100 mg/l | | | | |
| Tris(p-isocyanatophenyl) thiophosphate | sediment | | | | 2557 | | |

| | | | | | | | |
|---|------------------------------------|--|----------------|--|------------------|--|----------------------|
| 4151-51-3 | (freshwater) | | | | mg/kg | | |
| Tris(p-isocyanatophenyl) thiophosphate 4151-51-3 | sediment (marine water) | | | | 155 mg/kg | | |
| Tris(p-isocyanatophenyl) thiophosphate 4151-51-3 | Soil | | | | 510 mg/kg | | |
| 1,3-Diisocyanatomethylbenzene homopolymer 9017-01-0 | aqua (freshwater) | | 0,1 mg/l | | | | |
| 1,3-Diisocyanatomethylbenzene homopolymer 9017-01-0 | aqua (marine water) | | 0,01 mg/l | | | | |
| 1,3-Diisocyanatomethylbenzene homopolymer 9017-01-0 | aqua (intermittent releases) | | 0,1 mg/l | | | | |
| 1,3-Diisocyanatomethylbenzene homopolymer 9017-01-0 | sewage treatment plant (STP) | | 0,1 mg/l | | | | |
| 1,3-Diisocyanatomethylbenzene homopolymer 9017-01-0 | sediment (freshwater) | | | | 3302 mg/kg | | |
| 1,3-Diisocyanatomethylbenzene homopolymer 9017-01-0 | sediment (marine water) | | | | 330 mg/kg | | |
| 1,3-Diisocyanatomethylbenzene homopolymer 9017-01-0 | Soil | | | | 658 mg/kg | | |
| Acrylic acid 79-10-7 | aqua (freshwater) | | 0,003 mg/l | | | | |
| Acrylic acid 79-10-7 | aqua (marine water) | | 0,0003 mg/l | | | | |
| Acrylic acid 79-10-7 | sewage treatment plant (STP) | | 0,9 mg/l | | | | |
| Acrylic acid 79-10-7 | sediment (freshwater) | | | | 0,0236 mg/kg | | |
| Acrylic acid 79-10-7 | sediment (marine water) | | | | 0,00236 mg/kg | | |
| Acrylic acid 79-10-7 | Soil | | | | 1 mg/kg | | |
| Acrylic acid 79-10-7 | oral | | | | 0,03 g/kg | | |
| Acrylic acid 79-10-7 | Air | | | | | | no hazard identified |
| p-Toluenesulphonyl isocyanate 4083-64-1 | aqua (freshwater) | | 0,03 mg/l | | | | |
| p-Toluenesulphonyl isocyanate 4083-64-1 | aqua (marine water) | | 0,003 mg/l | | | | |
| p-Toluenesulphonyl isocyanate 4083-64-1 | sewage treatment plant (STP) | | 0,4 mg/l | | | | |
| p-Toluenesulphonyl isocyanate 4083-64-1 | sediment (freshwater) | | | | 0,172 mg/kg | | |
| p-Toluenesulphonyl isocyanate 4083-64-1 | sediment (marine water) | | | | 0,017 mg/kg | | |
| p-Toluenesulphonyl isocyanate 4083-64-1 | Soil | | | | 0,017 mg/kg | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|-----------------------------|--------------------|-------------------|--|---------------|------------|----------------------|
| Butanone 78-93-3 | Workers | dermal | Long term exposure - systemic effects | | 1161 mg/kg | |
| Butanone 78-93-3 | Workers | inhalation | Long term exposure - systemic effects | | 600 mg/m3 | |
| Butanone 78-93-3 | General population | dermal | Long term exposure - systemic effects | | 412 mg/kg | |
| Butanone 78-93-3 | General population | inhalation | Long term exposure - systemic effects | | 106 mg/m3 | |
| Butanone 78-93-3 | General population | oral | Long term exposure - systemic effects | | 31 mg/kg | |
| Ethyl acetate 141-78-6 | Workers | inhalation | Acute/short term exposure - systemic effects | | 1468 mg/m3 | no hazard identified |
| Ethyl acetate 141-78-6 | Workers | inhalation | Acute/short term exposure - local effects | | 1468 mg/m3 | no hazard identified |
| Ethyl acetate 141-78-6 | Workers | dermal | Long term exposure - systemic effects | | 63 mg/kg | no hazard identified |
| Ethyl acetate 141-78-6 | Workers | inhalation | Long term exposure - systemic effects | | 734 mg/m3 | no hazard identified |
| Ethyl acetate 141-78-6 | Workers | inhalation | Long term exposure - local effects | | 734 mg/m3 | no hazard identified |
| Ethyl acetate 141-78-6 | General population | Inhalation | Acute/short term exposure - systemic effects | | 734 mg/m3 | no hazard identified |
| Ethyl acetate 141-78-6 | General population | inhalation | Acute/short term exposure - local effects | | 734 mg/m3 | no hazard identified |
| Ethyl acetate 141-78-6 | General population | dermal | Long term exposure - systemic effects | | 37 mg/kg | no hazard identified |
| Ethyl acetate 141-78-6 | General population | inhalation | Long term exposure - systemic effects | | 367 mg/m3 | no hazard identified |
| Ethyl acetate 141-78-6 | General population | oral | Long term exposure - systemic effects | | 4,5 mg/kg | no hazard identified |
| Ethyl acetate 141-78-6 | General population | inhalation | Long term exposure - local effects | | 367 mg/m3 | no hazard identified |
| n-Butyl acetate 123-86-4 | Workers | inhalation | Long term exposure - systemic effects | | 300 mg/m3 | no hazard identified |
| n-Butyl acetate 123-86-4 | Workers | inhalation | Acute/short term exposure - systemic effects | | 600 mg/m3 | no hazard identified |
| n-Butyl acetate 123-86-4 | Workers | inhalation | Long term exposure - local effects | | 300 mg/m3 | no hazard identified |
| n-Butyl acetate 123-86-4 | Workers | inhalation | Acute/short term exposure - local effects | | 600 mg/m3 | no hazard identified |
| n-Butyl acetate 123-86-4 | Workers | dermal | Long term exposure - systemic effects | | 11 mg/kg | no hazard identified |
| n-Butyl acetate 123-86-4 | Workers | dermal | Acute/short term exposure - systemic effects | | 11 mg/kg | no hazard identified |
| n-Butyl acetate 123-86-4 | General population | inhalation | Long term exposure - systemic effects | | 35,7 mg/m3 | no hazard identified |
| n-Butyl acetate 123-86-4 | General population | inhalation | Acute/short term exposure - | | 300 mg/m3 | no hazard identified |

| | | | | | | |
|--|--------------------|------------|--|--|-------------|----------------------|
| | | | systemic effects | | | |
| n-Butyl acetate 123-86-4 | General population | inhalation | Acute/short term exposure - local effects | | 300 mg/m3 | no hazard identified |
| n-Butyl acetate 123-86-4 | General population | dermal | Long term exposure - systemic effects | | 6 mg/kg | no hazard identified |
| n-Butyl acetate 123-86-4 | General population | dermal | Acute/short term exposure - systemic effects | | 6 mg/kg | no hazard identified |
| n-Butyl acetate 123-86-4 | General population | oral | Long term exposure - systemic effects | | 2 mg/kg | no hazard identified |
| n-Butyl acetate 123-86-4 | General population | oral | Acute/short term exposure - systemic effects | | 2 mg/kg | no hazard identified |
| n-Butyl acetate 123-86-4 | General population | inhalation | Long term exposure - local effects | | 35,7 mg/m3 | no hazard identified |
| Tris(p-isocyanatophenyl) thiophosphate 4151-51-3 | Workers | inhalation | Long term exposure - local effects | | 0,047 mg/m3 | |
| 1,3-Diisocyanatomethylbenzene homopolymer 9017-01-0 | Workers | inhalation | Long term exposure - local effects | | 0,345 mg/m3 | |
| Acrylic acid 79-10-7 | Workers | inhalation | Long term exposure - local effects | | 30 mg/m3 | no hazard identified |
| Acrylic acid 79-10-7 | Workers | inhalation | Acute/short term exposure - local effects | | 30 mg/m3 | no hazard identified |
| Acrylic acid 79-10-7 | Workers | dermal | Acute/short term exposure - local effects | | 1 mg/cm2 | no hazard identified |
| Acrylic acid 79-10-7 | General population | dermal | Acute/short term exposure - local effects | | 1 mg/cm2 | no hazard identified |
| Acrylic acid 79-10-7 | General population | inhalation | Acute/short term exposure - local effects | | 3,6 mg/m3 | no hazard identified |
| Acrylic acid 79-10-7 | General population | inhalation | Long term exposure - local effects | | 3,6 mg/m3 | no hazard identified |
| p-Toluenesulphonyl isocyanate 4083-64-1 | Workers | inhalation | Long term exposure - systemic effects | | 3,24 mg/m3 | |
| p-Toluenesulphonyl isocyanate 4083-64-1 | Workers | dermal | Long term exposure - systemic effects | | 0,92 mg/kg | |
| p-Toluenesulphonyl isocyanate 4083-64-1 | General population | inhalation | Long term exposure - systemic effects | | 0,8 mg/m3 | |
| p-Toluenesulphonyl isocyanate 4083-64-1 | General population | dermal | Long term exposure - systemic effects | | 0,46 mg/kg | |
| p-Toluenesulphonyl isocyanate 4083-64-1 | General population | oral | Long term exposure - systemic effects | | 0,46 mg/kg | |

Biological Exposure Indices:

| Ingredient [Regulated substance] | Parameters | Biological specimen | Sampling time | Conc. | Basis of biol. exposure index | Remark | Additional Information |
|--|------------|---------------------|------------------------------|--------|-------------------------------|--------|------------------------|
| Butanone 78-93-3 [2-Butanone; Methyl ethyl ketone] | 2-butanone | Urine | Sampling time: End of shift. | 2 mg/l | DE BGW | | |

8.2. Exposure controls:

Engineering controls:
Use only in well ventilated areas.

Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; ≥ 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; ≥ 0.7 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Wear protective equipment.

Protective clothing that covers arms and legs.

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

Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway), or equivalent.

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 | black |
| Odor | Of ester and keton |
| Physical state | liquid |
| Melting point | Not applicable, Product is a liquid |
| Solidification temperature | < -50 °C (< -58 °F) |
| Initial boiling point | 80 °C (176 °F)no method / method unknown |
| Flammability | Currently under determination |
| Explosive limits | |
| lower | 0,82 %(V); |
| | Upper explosion limit not applicable for safe processing practices. |
| Flash point | -5,5 °C (22.1 °F); ASTM D3278 Setaflash Closed Cup |
| Auto-ignition temperature | > 300 °C (> 572 °F) |
| Decomposition temperature | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| pH | Not applicable, Product reacts with water. |
| Viscosity (kinematic) | 11 mm ² /s |
| (20 °C (68 °F);) | |
| Viscosity, dynamic | 5 - 14 mPa.s Viscosity Physica; HT-Method |
| (Physica Rheolab; Instrument: Physica Rheolab; | |
| 23,0 °C (73.4 °F)) | |
| Solubility (qualitative) | Partially miscible |
| (20 °C (68 °F); Solvent: Water) | |
| Partition coefficient: n-octanol/water | Not applicable |
| | Mixture |
| Vapour pressure | 470 mbar;no method / method unknown |
| (55 °C (131 °F)) | |
| Vapour pressure | 94 hPa |
| (20 °C (68 °F)) | |
| Vapour pressure | 360 hPa |
| (50 °C (122 °F)) | |
| Density | 0,98 g/cm ³ calculated |
| (20,0 °C (68 °F)) | |

| | |
|--------------------------|---------------------------------------|
| Relative vapour density: | Not available. |
| Particle characteristics | Not applicable Product is a liquid |

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

Reaction with water, alcohols, amines.

Reacts with water: Pressure built up in closed vessel (CO₂).

Oxidizers.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Humidity

Heat, flames, sparks and other sources of ignition.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

At higher temperatures isocyanate may be released.

Carbon dioxide is generated under contact with moisture, leading to pressure in the cans. Danger of cans bursting!

SECTION 11: Toxicological information

General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral 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 | Species | Method |
|--|--|---------------|---------|---|
| Butanone 78-93-3 | LD50 | 2.737 mg/kg | rat | not specified |
| Ethyl acetate 141-78-6 | LD50 | 6.100 mg/kg | rat | not specified |
| n-butyl acetate 123-86-4 | LD50 | 10.760 mg/kg | rat | OECD Guideline 423 (Acute Oral toxicity) |
| Phenol, 4-isocyanato-, phosphorothioat 4151-51-3 | LD50 | > 675 mg/kg | rat | OECD Guideline 423 (Acute Oral toxicity) |
| Phenol, 4-isocyanato-, phosphorothioat 4151-51-3 | Acute toxicity estimate (ATE) | 676 mg/kg | | Expert judgement |
| 1,3- Diisocyanatomethylbenze ne homopolymer 9017-01-0 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 423 (Acute Oral toxicity) |
| 2,4-Toluene diisocyanate, homopolymer 26006-20-2 | LD50 | > 5.000 mg/kg | rat | not specified |
| Acrylic acid 79-10-7 | LD50 | 1.500 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| 4- isocyanatosulphonyltolue ne 4083-64-1 | LD50 | 2.330 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |

Acute dermal 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 | Species | Method |
|--|--|----------------|---------|--|
| Butanone 78-93-3 | LD50 | > 6.400 mg/kg | rabbit | not specified |
| Ethyl acetate 141-78-6 | LD50 | > 20.000 mg/kg | rabbit | Draize Test |
| n-butyl acetate 123-86-4 | LD50 | > 14.112 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| 2,4-Toluene diisocyanate, homopolymer 26006-20-2 | Acute toxicity estimate (ATE) | > 5.000 mg/kg | | Expert judgement |
| Acrylic acid 79-10-7 | Acute toxicity estimate (ATE) | 1.100 mg/kg | | Expert judgement |
| Acrylic acid 79-10-7 | LD50 | > 2.000 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| 4- isocyanatosulphonyltolue ne 4083-64-1 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |

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 |
|--|--|--------------|-----------------|------------------|---------|---|
| Butanone 78-93-3 | LC50 | 34,5 mg/l | vapour | 4 h | rat | not specified |
| Ethyl acetate 141-78-6 | LC0 | > 22,5 mg/l | dust/mist | 6 h | rat | other guideline: |
| Ethyl acetate 141-78-6 | LC50 | > 22,5 mg/l | dust/mist | 6 h | rat | other guideline: |
| n-butyl acetate 123-86-4 | LC50 | > 23,4 mg/l | mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Phenol, 4-isocyanato-, phosphorothioat 4151-51-3 | LC50 | > 5,721 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Phenol, 4-isocyanato-, phosphorothioat 4151-51-3 | Acute toxicity estimate (ATE) | 5,7211 mg/l | | | | Expert judgement |
| 2,4-Toluene diisocyanate, homopolymer 26006-20-2 | LC50 | 3,665 mg/l | dust/mist | 4 h | rat | not specified |
| Acrylic acid 79-10-7 | LC0 | 5,1 mg/l | vapour | 4 h | rat | equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity) |
| Acrylic acid 79-10-7 | Acute toxicity estimate (ATE) | 11 mg/l | vapour | | | 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 |
|--|---------------------------|------------------|---------|--|
| Butanone 78-93-3 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Ethyl acetate 141-78-6 | slightly irritating | 24 h | rabbit | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| n-butyl acetate 123-86-4 | not irritating | | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Phenol, 4-isocyanato-, phosphorothioat 4151-51-3 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| 1,3- Diisocyanatomethylbenze ne homopolymer 9017-01-0 | slightly irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| 2,4-Toluene diisocyanate, homopolymer 26006-20-2 | slightly irritating | 4 h | rabbit | not specified |
| Acrylic acid 79-10-7 | Category 1 (corrosive) | 3 min | rabbit | 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 |
|--|---|------------------|---------|--|
| Butanone 78-93-3 | irritating | | rabbit | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Ethyl acetate 141-78-6 | slightly irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| n-butyl acetate 123-86-4 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Phenol, 4-isocyanato-, phosphorothioat 4151-51-3 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| 1,3- Diisocyanatomethylbenze ne homopolymer 9017-01-0 | slightly irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| 2,4-Toluene diisocyanate, homopolymer 26006-20-2 | irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Acrylic acid 79-10-7 | Category 1 (irreversible effects on the eye) | | rabbit | BASF Test |

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 |
|--|-----------------|---------------------------------------|------------|--|
| Butanone 78-93-3 | not sensitising | Buehler test | guinea pig | equivalent or similar to OECD Guideline 406 (Skin Sensitisation) |
| Ethyl acetate 141-78-6 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| n-butyl acetate 123-86-4 | not sensitising | Guinea pig maximisation test | guinea pig | not specified |
| Phenol, 4-isocyanato-, phosphorothioat 4151-51-3 | not sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| 1,3- Diisocyanatomethylbenze ne homopolymer 9017-01-0 | sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Acrylic acid 79-10-7 | not sensitising | Freund's complete adjuvant test | guinea pig | Klecak Method |
| Acrylic acid 79-10-7 | not sensitising | Split adjuvant test | guinea pig | Maguire Method |

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 |
|--|---------------|---|---|---------------------|--|
| Butanone 78-93-3 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Butanone 78-93-3 | negative | in vitro mammalian chromosome aberration test | not applicable | | equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Butanone 78-93-3 | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Ethyl acetate 141-78-6 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Ethyl acetate 141-78-6 | negative | in vitro mammalian chromosome aberration test | with and without | | equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| n-butyl acetate 123-86-4 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| n-butyl acetate 123-86-4 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| 1,3- Diisocyanatomethylbenze ne homopolymer 9017-01-0 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| 1,3- Diisocyanatomethylbenze ne homopolymer 9017-01-0 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| 1,3- Diisocyanatomethylbenze ne homopolymer 9017-01-0 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Acrylic acid 79-10-7 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Acrylic acid 79-10-7 | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Acrylic acid 79-10-7 | negative | DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro | without | | equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells) |
| 4- isocyanatosulphonyltolue ne 4083-64-1 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | not specified |
| 4- isocyanatosulphonyltolue ne 4083-64-1 | negative | in vitro mammalian chromosome aberration test | with and without | | not specified |
| Butanone 78-93-3 | negative | intraperitoneal | | mouse | equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Ethyl acetate 141-78-6 | negative | oral: gavage | | hamster, Chinese | equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| n-butyl acetate 123-86-4 | negative | oral: gavage | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |

| | | | | | |
|-------------------------|----------|--------------|--|-------|--|
| Acrylic acid 79-10-7 | negative | oral: gavage | | rat | equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) |
| Acrylic acid 79-10-7 | negative | oral: gavage | | mouse | not specified |

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 |
|---------------------------------|------------------|----------------------|---|---------|-------------|--|
| Acrylic acid 79-10-7 | not carcinogenic | oral: drinking water | 26 - 28 m continuously | rat | male/female | OECD Guideline 451 (Carcinogenicity Studies) |
| Acrylic acid 79-10-7 | not carcinogenic | dermal | 21 m 3 times/w | mouse | male/female | not specified |

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 |
|---|---|----------------------|----------------------|---------|--|
| Butanone 78-93-3 | NOAEL P 10.000 mg/l NOAEL F1 10.000 mg/l | two-generation study | oral: drinking water | rat | equivalent or similar to OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |
| Ethyl acetate 141-78-6 | NOAEL P 1500 ppm | other: | inhalation | rat | other guideline: |
| Acrylic acid 79-10-7 | NOAEL P 83 mg/kg NOAEL F1 250 mg/kg | one-generation study | oral: drinking water | rat | equivalent or similar to OECD Guideline 415 (One-Generation Reproduction Toxicity Study) |
| Acrylic acid 79-10-7 | NOAEL P 240 mg/kg NOAEL F1 53 mg/kg NOAEL F2 53 mg/kg | two-generation study | oral: drinking water | rat | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |
| 4-isocyanatosulphonyltoluene 4083-64-1 | NOAEL F1 300 mg/kg | one-generation study | oral: gavage | 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:

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

| Hazardous substances CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---------------------------------|------------------|----------------------------|--|---------|---|
| Butanone 78-93-3 | NOAEL 2500 ppm | inhalation | 90 days 6 hours/day, 5 days/week | rat | not specified |
| Ethyl acetate 141-78-6 | NOAEL 900 mg/kg | oral: gavage | 90 d daily | rat | EPA OTS 795.2600 (Subchronic Oral Toxicity Test) |
| n-butyl acetate 123-86-4 | NOAEL 125 mg/kg | oral: gavage | 6 (interim sacrifice) or 13 w daily | rat | EPA OTS 798.2650 (90- Day Oral Toxicity in Rodents) |
| Acrylic acid 79-10-7 | NOAEL 40 mg/kg | oral: drinking water | 12 m daily | rat | equivalent or similar to OECD Guideline 452 (Chronic Toxicity Studies) |
| Acrylic acid 79-10-7 | NOAEL 0,015 mg/l | inhalation: vapour | 90 d 6 h/d, 5 d/w | mouse | equivalent or similar to OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day) |

Aspiration hazard:

The mixture is classified based on Viscosity data.

| Hazardous substances CAS-No. | Viscosity (kinematic) Value | Temperature | Method | Remarks |
|---------------------------------|--------------------------------|-------------|---------------------|---------|
| Butanone 78-93-3 | 0,51 mm ² /s | 20 °C | ASTM Standard D7042 | |

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:

Do not empty into drains, soil or bodies of 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 |
|--|------------|-----------------------------|---------------|---|--|
| Butanone 78-93-3 | LC50 | 3.220 mg/l | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Ethyl acetate 141-78-6 | LC50 | 220 mg/l | 96 h | Pimephales promelas | other guideline: |
| n-butyl acetate 123-86-4 | LC50 | 18 mg/l | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Phenol, 4-isocyanato-, phosphorothioat 4151-51-3 | LC50 | Toxicity > Water solubility | | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 1,3-Diisocyanatomethylbenzene homopolymer 9017-01-0 | LC50 | > 100 mg/l | 96 h | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 2,4-Toluene diisocyanate, homopolymer 26006-20-2 | LC50 | Toxicity > Water solubility | 96 h | Danio rerio | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Acrylic acid 79-10-7 | LC50 | 27 mg/l | 96 h | Salmo gairdneri (new name: Oncorhynchus mykiss) | EPA OTS 797.1400 (Fish Acute Toxicity Test) |
| Acrylic acid 79-10-7 | NOEC | >= 10,1 mg/l | 45 d | Oryzias latipes | OECD Guideline 210 (fish early lite stage toxicity test) |
| 4-isocyanatosulphonyltoluene 4083-64-1 | LC50 | > 45 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity 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 |
|--|------------|-----------------------------|---------------|-------------------|--|
| Butanone 78-93-3 | EC50 | 5.091 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Ethyl acetate 141-78-6 | EC50 | 164 mg/l | 48 h | Daphnia cucullata | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| n-butyl acetate 123-86-4 | EC50 | 44 mg/l | 48 h | Daphnia sp. | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 1,3-Diisocyanatomethylbenzene homopolymer 9017-01-0 | EC50 | > 100 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 2,4-Toluene diisocyanate, homopolymer 26006-20-2 | EC50 | Toxicity > Water solubility | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Acrylic acid 79-10-7 | EC50 | 95 mg/l | 48 h | Daphnia magna | EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) |
| 4-isocyanatosulphonyltoluene 4083-64-1 | EC50 | > 100 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 |
|---|-----------------------|--------------|----------------------|----------------|--|
| Ethyl acetate 141-78-6 | NOEC | 2,4 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| n-butyl acetate 123-86-4 | NOEC | 23,2 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Acrylic acid 79-10-7 | NOEC | 19 mg/l | 21 d | Daphnia magna | EPA OTS 797.1330 (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 |
|---|---------------|--------------------------------|---------------|---|--|
| Butanone 78-93-3 | EC50 | 1.240 mg/l | 96 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Butanone 78-93-3 | EC10 | 1.010 mg/l | 96 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Ethyl acetate 141-78-6 | EC50 | > 2.000 mg/l | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Ethyl acetate 141-78-6 | NOEC | 2.000 mg/l | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| n-butyl acetate 123-86-4 | EC50 | 674,7 mg/l | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| n-butyl acetate 123-86-4 | EC10 | 295,5 mg/l | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Phenol, 4-isocyanato-, phosphorothioat 4151-51-3 | EC50 | Toxicity > Water solubility | | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Phenol, 4-isocyanato-, phosphorothioat 4151-51-3 | NOEC | Toxicity > Water solubility | | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 1,3- Diisocyanatomethylbenzene homopolymer 9017-01-0 | EC50 | > 100 mg/l | 72 h | Desmodesmus subspicatus | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 1,3- Diisocyanatomethylbenzene homopolymer 9017-01-0 | NOEC | 100 mg/l | 72 h | Desmodesmus subspicatus | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 2,4-Toluene diisocyanate, homopolymer 26006-20-2 | EC50 | Toxicity > Water solubility | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Acrylic acid 79-10-7 | EC10 | 0,03 mg/l | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | EU Method C.3 (Algal Inhibition test) |
| Acrylic acid 79-10-7 | EC50 | 0,13 mg/l | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | EU Method C.3 (Algal Inhibition test) |
| 4-isocyanatosulphonyltoluene 4083-64-1 | EC50 | 30 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 4-isocyanatosulphonyltoluene 4083-64-1 | EC10 | 23 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |

Toxicity (microorganisms):

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 |
|---|---------------|--------------------------------|---------------|-------------------------------------|--|
| Butanone 78-93-3 | EC50 | 1.150 mg/l | 16 h | Pseudomonas putida | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test) |
| Ethyl acetate 141-78-6 | EC10 | 2.900 mg/l | 18 h | Pseudomonas putida | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test) |
| n-butyl acetate 123-86-4 | IC50 | 356 mg/l | 40 h | Ciliate (Tetrahymena pyriformis) | other guideline: |
| 1,3- Diisocyanatomethylbenzene homopolymer 9017-01-0 | EC50 | > 1.000 mg/l | 3 h | activated sludge | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| 2,4-Toluene diisocyanate, homopolymer 26006-20-2 | EC50 | Toxicity > Water solubility | 3 h | activated sludge | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Acrylic acid | EC20 | 900 mg/l | 30 min | activated sludge, domestic | ISO 8192 (Test for |

| | | | | | |
|---|-------|------------|--|--|--|
| 79-10-7 | | | | | Inhibition of Oxygen Consumption by Activated Sludge) |
| 4-isocyanatosulphonyltoluene 4083-64-1 | EC 50 | 2.511 mg/l | | | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

12.2. Persistence and degradability

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

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|---|------------------------------|-----------|---------------|---------------|---|
| Butanone 78-93-3 | readily biodegradable | aerobic | 98 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| Ethyl acetate 141-78-6 | readily biodegradable | aerobic | 100 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| n-butyl acetate 123-86-4 | readily biodegradable | aerobic | 83 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| Phenol, 4-isocyanato-, phosphorothioat 4151-51-3 | | aerobic | 58,2 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| 1,3- Diisocyanatomethylbenzene homopolymer 9017-01-0 | not readily biodegradable. | aerobic | 4 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| 1,3- Diisocyanatomethylbenzene homopolymer 9017-01-0 | not inherently biodegradable | aerobic | 8 % | 28 d | OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II)) |
| 2,4-Toluene diisocyanate, homopolymer 26006-20-2 | not readily biodegradable. | aerobic | > 0 - < 60 % | 28 d | OECD 301 A - F |
| Acrylic acid 79-10-7 | inherently biodegradable | aerobic | 100 % | 28 d | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test) |
| Acrylic acid 79-10-7 | readily biodegradable | aerobic | 81 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| 4-isocyanatosulphonyltoluene 4083-64-1 | readily biodegradable | aerobic | 83 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |

12.3. Bioaccumulative potential

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

| Hazardous substances CAS-No. | Bioconcentration factor (BCF) | Exposure time | Temperature | Species | Method |
|---|-------------------------------|---------------|-------------|--------------------------|---|
| Ethyl acetate 141-78-6 | 30 | 3 d | 22,5 °C | Leuciscus idus melanotus | other guideline: |
| 1,3- Diisocyanatomethylbenzene homopolymer 9017-01-0 | < 1 | 56 d | | Carassius sp. | not specified |
| Acrylic acid 79-10-7 | 3,16 | | | | QSAR (Quantitative Structure Activity Relationship) |

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 |
|--|--------|-------------|---|
| Butanone 78-93-3 | 0,3 | 40 °C | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| Ethyl acetate 141-78-6 | 0,68 | 25 °C | EPA OPPTS 830.7560 (Partition Coefficient, n-octanol / H ₂ O, Generator Column Method) |
| n-butyl acetate 123-86-4 | 2,3 | 25 °C | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| Phenol, 4-isocyanato-, phosphorothioat 4151-51-3 | 8,27 | | not specified |
| Acrylic acid 79-10-7 | 0,46 | 25 °C | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| 4-isocyanatosulphonyltoluene 4083-64-1 | 0,6 | 30 °C | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |

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 |
|--|---|
| Butanone 78-93-3 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Ethyl acetate 141-78-6 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| n-butyl acetate 123-86-4 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Phenol, 4-isocyanato-, phosphorothioat 4151-51-3 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 1,3-Diisocyanatomethylbenzene homopolymer 9017-01-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Acrylic acid 79-10-7 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 4-isocyanatosulphonyltoluene 4083-64-1 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

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:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code
080409

Waste code

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 | 1139 |
| RID | 1139 |
| ADN | 1139 |
| IMDG | 1139 |
| IATA | 1139 |

14.2. UN proper shipping name

| | |
|------|------------------|
| ADR | COATING SOLUTION |
| RID | COATING SOLUTION |
| ADN | COATING SOLUTION |
| IMDG | COATING SOLUTION |
| IATA | Coating solution |

14.3. Transport hazard class(es)

| | |
|------|---|
| ADR | 3 |
| RID | 3 |
| ADN | 3 |
| IMDG | 3 |
| IATA | 3 |

14.4. Packing group

| | |
|------|----|
| ADR | II |
| RID | II |
| ADN | II |
| IMDG | II |
| IATA | II |

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 | Special provision 640D Tunnelcode: (D/E) |
| RID | Special provision 640D |
| ADN | Special provision 640D |
| 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): | Hexachlorobenzene CAS 118-74-1 |

VOC content 66,5 %
(2010/75/EU)

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

National regulations/information (Germany):

WGK: WGK 2: significantly water endangering (Ordinance on facilities for handling substances that are hazardous to water (AwSV))
Classification according to AwSV, Annex 1 (5.2)

BG regulations, rules, infos:

BG data sheet: BGI 621 Solvents
BG data sheet: BGI 524 Hazardous substances: polyurethane production
and processing / isocyanates (M 044)

Storage class according to TRGS 510: 3

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:

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H302 Harmful if swallowed.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 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:

This Safety Data Sheet has been produced for sales from Henkel to parties purchasing from Henkel, is based on Regulation (EC) No 1907/2006 and provides information in accordance with applicable regulations of the European Union only. In that respect, no statement, warranty or representation of any kind is given as to compliance with any statutory laws or regulations of any other jurisdiction or territory other than the European Union. When exporting to territories other than the European Union, please consult with the respective Safety Data Sheet of the concerned territory to ensure compliance or liaise with Henkel's Product Safety and Regulatory Affairs Department (SDSinfo.Adhesive@henkel.com) prior to export to other territories than the European Union.

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Dear Customer,

Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative. We recommend to use a non-personal email address (e.g. SDS@your_company.com).

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.

Annex - Exposure Scenarios:

Exposure Scenarios for butanone (MEK) can be downloaded under the following link:
<https://mysds.henkel.com/index.html#/appSelection>



Safety Data Sheet according to (EC) No 1907/2006 as amended Page 1 of 12

TEROSON BOND120 SET

SDS No. : 298868
V003.0

Revision: 09.06.2023
printing date: 10.07.2023

Replaces version from: 10.03.2023

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

1.1. Product identifier

TEROSON BOND120 SET

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

Intended use:
cleaning tissue

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

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

| | |
|--|------------|
| Flammable liquids | Category 2 |
| H225 Highly flammable liquid and vapour. | |
| Serious eye irritation | Category 2 |
| H319 Causes serious eye irritation. | |
| Specific target organ toxicity - single exposure | Category 3 |
| H336 May cause drowsiness or dizziness. | |

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains

Propan-2-ol

Signal word:

Danger

| | |
|---------------------------------|---|
| Hazard statement: | H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. |
| Precautionary statement: | P210 Keep away from sparks/open flames/hot surfaces. - No smoking. P261 Avoid breathing vapors. P280 Wear eye protection/face protection. |

2.3. Other hazards

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.

The solvent vapors are heavier than air and may collect in high concentrations at floor level.

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

General chemical description:

cleaning tissue

Base substances of preparation:

isopropanol

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 |
|---|---------------|---|---|------------------|
| Propan-2-ol 67-63-0 200-661-7 01-2119457558-25 | 80- 100 % | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 | | |

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".

Declaration of ingredients according to Detergent Regulation 648/2004/EC

The preparation does not contain any ingredients to be labelled according to this regulation.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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.

Vapors may cause drowsiness and dizziness.

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:

Water jet (solvent-containing product).

5.2. Special hazards arising from the substance or mixture

In case of fire toxic gases can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment.

Avoid contact with skin and eyes.

Keep unprotected persons away.

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.

Remove mechanically.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Avoid open flames and sources of ignition.

Ground/bond container and receiving equipment.

Use explosion proof electric equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Hygiene measures:

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.

Keep container in a well ventilated place.

Store in a cool, dry place.

7.3. Specific end use(s)
cleaning tissue

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 |
|----------------------------------|-----|-------------------|-------------------------------------|--|-----------------|
| Propan-2-ol 67-63-0 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Propan-2-ol 67-63-0 | 200 | 500 | 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 | |
| Propan-2-ol 67-63-0 | aqua (freshwater) | | 140,9 mg/l | | | | |
| Propan-2-ol 67-63-0 | aqua (marine water) | | 140,9 mg/l | | | | |
| Propan-2-ol 67-63-0 | sediment (freshwater) | | | | 552 mg/kg | | |
| Propan-2-ol 67-63-0 | sediment (marine water) | | | | 552 mg/kg | | |
| Propan-2-ol 67-63-0 | Soil | | | | 28 mg/kg | | |
| Propan-2-ol 67-63-0 | aqua (intermittent releases) | | 140,9 mg/l | | | | |
| Propan-2-ol 67-63-0 | sewage treatment plant (STP) | | 2251 mg/l | | | | |
| Propan-2-ol 67-63-0 | oral | | | | 160 mg/kg | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|------------------------|--------------------|-------------------|---------------------------------------|---------------|-----------------------|---------|
| Propan-2-ol 67-63-0 | Workers | dermal | Long term exposure - systemic effects | | 888 mg/kg | |
| Propan-2-ol 67-63-0 | Workers | inhalation | Long term exposure - systemic effects | | 500 mg/m ³ | |
| Propan-2-ol 67-63-0 | General population | dermal | Long term exposure - systemic effects | | 319 mg/kg | |
| Propan-2-ol 67-63-0 | General population | inhalation | Long term exposure - systemic effects | | 89 mg/m ³ | |
| Propan-2-ol 67-63-0 | General population | oral | Long term exposure - systemic effects | | 26 mg/kg | |

Biological Exposure Indices:

| Ingredient [Regulated substance] | Parameters | Biological specimen | Sampling time | Conc. | Basis of biol. exposure index | Remark | Additional Information |
|--|------------|---------------------|------------------------------|---------|-------------------------------|--------|------------------------|
| Propan-2-ol 67-63-0 | acetone | Blood | Sampling time: End of shift. | 25 mg/l | DE BGW | | |
| Propan-2-ol 67-63-0 [2-PROPANOL] | acetone | Urine | Sampling time: End of shift. | 25 mg/l | DE BGW | | |

8.2. Exposure controls:

Engineering controls:

Use only in well ventilated areas.

Respiratory protection:

In case of dust formation, we recommend wearing of appropriate respiratory protection equipment with particle filter P (EN 14387).

This recommendation should be matched to local conditions.

Filter type: A (EN 14387)

Suitable breathing mask when there is inadequate ventilation.

Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; ≥ 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; ≥ 0.7 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Wear protective equipment.

Protective clothing that covers arms and legs.

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

Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway), or equivalent.

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, on inert carrier material |
| Colour | white |
| Odor | of solvent |
| Physical state | solid |
| Melting point | -89,5 °C (-129.1 °F) |
| Solidification temperature | Not applicable, Product is a solid. |
| Initial boiling point | 82 °C (179.6 °F) |
| Flammability | Currently under determination |
| Explosive limits | |
| lower | 12 %(V); Upper explosion limit not applicable for safe processing practices. |
| Flash point | 12 °C (53.6 °F); no method / method unknown |
| Auto-ignition temperature | Not applicable, Product is a solid. |
| Decomposition temperature | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |

| | |
|---|--|
| pH (20 °C (68 °F); Conc.: 100 %) | 9,11 Mixture is a tissue/fabric, provided pH is from applied solution. |
| Viscosity (kinematic) | Not applicable, Product is a solid. |
| Solubility (qualitative) (20 °C (68 °F); Solvent: Water) | Insoluble |
| Partition coefficient: n-octanol/water | Not applicable |
| Vapour pressure | Mixture 48 hPa |
| Density (20 °C (68 °F)) | 0,785 g/cm ³ no method / method unknown |
| Relative vapour density: | Not applicable, Product is a solid. |
| Particle characteristics | Currently under determination |

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

Oxidizers.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Heat, flames, sparks and other sources of ignition.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

No decomposition if used according to specifications.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral 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 | Species | Method |
|---------------------------------|---------------|-------------|---------|---|
| Propan-2-ol 67-63-0 | LD50 | 5.840 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |

Acute dermal 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 | Species | Method |
|---------------------------------|---------------|--------------|---------|--|
| Propan-2-ol 67-63-0 | LD50 | 12.870 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |

Acute inhalative toxicity:

No data available.

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 |
|---------------------------------|------------------------|------------------|---------|--|
| Propan-2-ol 67-63-0 | slightly irritating | 4 h | rabbit | 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 |
|---------------------------------|-------------|------------------|---------|--|
| Propan-2-ol 67-63-0 | Category II | | rabbit | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

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 |
|---------------------------------|-----------------|--------------|------------|---|
| Propan-2-ol 67-63-0 | not sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |

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 |
|---------------------------------|----------|--|--|---------|---|
| Propan-2-ol 67-63-0 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Propan-2-ol 67-63-0 | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Propan-2-ol 67-63-0 | negative | intraperitoneal | | mouse | equivalent or similar to 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 |
|---------------------------------|--------|-------------------------|---|---------|-------------|--|
| Propan-2-ol 67-63-0 | | inhalation: vapour | 104 w 6 h/d, 5 d/w | rat | male/female | OECD Guideline 451 (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 |
|---------------------------------|---|----------------------|-------------------------|---------|--|
| Propan-2-ol 67-63-0 | NOAEL P 853 mg/kg | One generation study | oral: drinking water | rat | equivalent or similar to OECD Guideline 415 (One-Generation Reproduction Toxicity Study) |
| Propan-2-ol 67-63-0 | NOAEL P 500 mg/kg NOAEL F1 1.000 mg/kg | Two generation study | oral: gavage | rat | equivalent or similar to OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |

STOT-single exposure:

No data available.

STOT-repeated exposure:

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

| Hazardous substances CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---------------------------------|----------------|-----------------------|---|---------|---|
| Propan-2-ol 67-63-0 | | inhalation: vapour | at least 104 w 6 h/d, 5 d/w | rat | OECD Guideline 451 (Carcinogenicity Studies) |

Aspiration hazard:

The mixture is classified based on Viscosity data.

| Hazardous substances CAS-No. | Viscosity (kinematic) Value | Temperature | Method | Remarks |
|---------------------------------|--------------------------------|-------------|---------------------|---------|
| Propan-2-ol 67-63-0 | 1,8 mm ² /s | 40 °C | ASTM Standard D7042 | |

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:

Do not empty into drains, soil or bodies of 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 |
|---------------------------------|---------------|-----------------------|---------------|---------------------|---|
| Propan-2-ol 67-63-0 | LC50 | > 9.640 - 10.000 mg/l | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |

Toxicity (aquatic invertebrates):

No data available.

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 |
|---------------------------------|---------------|---------|---------------|---------------|--|
| Propan-2-ol 67-63-0 | NOEC | 30 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction 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 |
|---------------------------------|---------------|--------------|---------------|---|--|
| Propan-2-ol 67-63-0 | EC50 | > 1.000 mg/l | 96 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Propan-2-ol 67-63-0 | NOEC | 1.000 mg/l | 96 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |

Toxicity (microorganisms):

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 |
|---------------------------------|---------------|--------------|---------------|------------------|--|
| Propan-2-ol 67-63-0 | EC50 | > 1.000 mg/l | 3 h | activated sludge | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

12.2. Persistence and degradability

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

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|---------------------------------|-----------------------|-----------|---------------|------------------|--|
| Propan-2-ol 67-63-0 | readily biodegradable | aerobic | 70 - 84 % | 30 d | EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test) |

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 |
|---------------------------------|--------|-------------|--|
| Propan-2-ol 67-63-0 | 0,05 | | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |

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 |
|---------------------------------|---|
| Propan-2-ol 67-63-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

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:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

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.

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SECTION 14: Transport information

- 14.1. UN number or ID number**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.2. UN proper shipping name**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.3. Transport hazard class(es)**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.4. Packing group**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.5. Environmental hazards**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.6. Special precautions for user**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 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): | Not applicable |
| VOC content (2010/75/EU) | 90 % |

VOC Paints and Varnishes (EU):

Product (sub)category: This product is not a subject of the Directive 2004/42/EC

15.2. Chemical safety assessment

A chemical safety assessment has 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)

BG regulations, rules, infos:

BG data sheet: BGI 621 Solvents

Storage class according to TRGS 510: 3

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:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

| | |
|-------------|---|
| 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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