



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

Page 1 of 17

Tangit Liquid Glue Rigid PVC

SDS No. : 260491

V003.0

Revision: 22.07.2025

printing date: 23.07.2025

Replaces version from: 22.04.2022

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

#### 1.1. Product identifier

Tangit Liquid Glue Rigid PVC  
UFI: 3NY3-M0HC-5005-7Y40

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

Intended use:  
Pipe adhesive

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

Henkel Ltd  
Adhesives  
Wood Lane End  
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website [www.mysds.henkel.com](http://www.mysds.henkel.com) or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

#### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: [technical.services@henkel.co.uk](mailto:technical.services@henkel.co.uk)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (CLP):

|                                                  |            |
|--------------------------------------------------|------------|
| Flammable liquids                                | Category 2 |
| H225 Highly flammable liquid and vapour.         |            |
| Skin irritation                                  | Category 2 |
| H315 Causes skin irritation.                     |            |
| Serious eye damage                               | Category 1 |
| H318 Causes serious eye damage.                  |            |
| 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

Cyclohexanone

**Signal word:**

**Danger**

**Hazard statement:**

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.

**Precautionary statement:**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe vapors.  
P271 Use only outdoors or in a well-ventilated area.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P280 Wear protective gloves/eye protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor.

**Precautionary statement:  
Disposal**

P501 Dispose of contents/container in accordance with national regulation.

### 2.3. Other hazards

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.  
Pregnant women should absolutely avoid inhalation and skin contact.

**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:**

| <b>Hazardous components<br/>CAS-No.<br/>EC Number<br/>REACH-Reg. No.</b> | <b>Concentration</b> | <b>Classification</b>                                                                                                                                     | <b>Specific Conc. Limits, M-factors and ATEs</b> | <b>Add. Information</b> |
|--------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------|
| Butanone<br>78-93-3<br>201-159-0<br>01-2119457290-43                     | 40- < 60 %           | STOT SE 3, H336<br>Eye Irrit. 2, H319<br>Flam. Liq. 2, H225                                                                                               |                                                  | EU OEL                  |
| Cyclohexanone<br>108-94-1<br>203-631-1<br>01-2119453616-35               | 20- < 40 %           | Flam. Liq. 3, H226<br>Acute Tox. 4, Oral, H302<br>Acute Tox. 4, Dermal, H312<br>Acute Tox. 4, Inhalation, H332<br>Eye Dam. 1, H318<br>Skin Irrit. 2, H315 |                                                  | EU OEL                  |

**If no ATE values are displayed, please refer to LD/LC50 values in Section 11.  
For full text of the H - statements and other abbreviations see section 16 "Other information".**

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Eye contact:

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

Ingestion:

Rinse mouth, do not induce vomiting, consult a doctor.

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

SKIN: Redness, inflammation.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

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, water spray jet, fine water spray

**Extinguishing media which must not be used for safety reasons:**

High pressure waterjet

### 5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) can be released.

### 5.3. Advice for firefighters

Wear protective equipment.  
Wear self-contained breathing apparatus.

### Additional information:

Cool endangered containers with water spray jet.

## SECTION 6: Accidental release measures

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

Wear protective equipment.  
Ensure adequate ventilation.  
Avoid contact with skin and eyes.  
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

Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.  
During processing and drying after adhesion, ventilate well. Avoid all sources of fire such as stoves and ovens. Switch off all electrical devices such as parabolic heaters, hot plates, storage heaters etc. in good time for them to have cooled down before commencing work. Avoid all sparks, including those occurring at electrical switches and devices.  
Avoid skin and eye contact.

### 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

Store only in the original container.  
Observe rules and measures for storage of flammable liquids.  
Temperatures between + 5 °C and + 35 °C.  
Store in a cool place in closed original container.  
Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

### 7.3. Specific end use(s)

Pipe adhesive

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

| Ingredient [Regulated substance]                                         | ppm | mg/m <sup>3</sup> | Value type                        | Short term exposure limit category / Remarks | Regulatory list |
|--------------------------------------------------------------------------|-----|-------------------|-----------------------------------|----------------------------------------------|-----------------|
| Butanone<br>78-93-3<br>[BUTAN-2-ONE (METHYL ETHYL KETONE)]               |     |                   | Skin designation:                 | Can be absorbed through the skin.            | EH40 WEL        |
| Butanone<br>78-93-3<br>[BUTAN-2-ONE (METHYL ETHYL KETONE)]               | 200 | 600               | Time Weighted Average (TWA):      |                                              | EH40 WEL        |
| Butanone<br>78-93-3<br>[BUTANONE]                                        | 200 | 600               | Time Weighted Average (TWA):      | Indicative                                   | ECTLV           |
| Butanone<br>78-93-3<br>[BUTANONE]                                        | 300 | 900               | Short Term Exposure Limit (STEL): | Indicative                                   | ECTLV           |
| Butanone<br>78-93-3<br>[BUTAN-2-ONE (METHYL ETHYL KETONE)]               | 300 | 899               | Short Term Exposure Limit (STEL): | 15 minutes                                   | EH40 WEL        |
| Cyclohexanone<br>108-94-1<br>[CYCLOHEXANONE]                             |     |                   | Skin designation:                 | Can be absorbed through the skin.            | EH40 WEL        |
| Cyclohexanone<br>108-94-1<br>[CYCLOHEXANONE]                             | 10  | 41                | Time Weighted Average (TWA):      |                                              | EH40 WEL        |
| Cyclohexanone<br>108-94-1<br>[CYCLOHEXANONE]                             | 10  | 40,8              | Time Weighted Average (TWA):      | Indicative                                   | ECTLV           |
| Cyclohexanone<br>108-94-1<br>[CYCLOHEXANONE]                             | 20  | 81,6              | Short Term Exposure Limit (STEL): | Indicative                                   | ECTLV           |
| Cyclohexanone<br>108-94-1<br>[CYCLOHEXANONE]                             | 20  | 82                | Short Term Exposure Limit (STEL): | 15 minutes                                   | EH40 WEL        |
| Cyclohexanone<br>108-94-1<br>[Cyclohexanone]                             |     |                   | Skin designation:                 | Can be absorbed through the skin.            | ECTLV           |
| Polyvinyl chloride<br>9002-86-2<br>[Polyvinyl chloride, respirable dust] |     | 4                 | Time Weighted Average (TWA):      |                                              | EH40 WEL        |
| Polyvinyl chloride<br>9002-86-2<br>[Polyvinyl chloride, inhalable dust]  |     | 10                | Time Weighted Average (TWA):      |                                              | EH40 WEL        |

**Occupational Exposure Limits**Valid for  
Ireland

| Ingredient [Regulated substance]                   | ppm | mg/m <sup>3</sup> | Value type                   | Short term exposure limit category / Remarks | Regulatory list |
|----------------------------------------------------|-----|-------------------|------------------------------|----------------------------------------------|-----------------|
| Butanone<br>78-93-3<br>[METHYL ETHYL KETONE (MEK)] | 200 | 600               | Time Weighted Average (TWA): | Indicative OELV                              | IR_OEL          |
| Butanone<br>78-93-3<br>[METHYL ETHYL KETONE (MEK)] |     |                   | Skin designation:            | Can be absorbed through the skin.            | IR_OEL          |
| Butanone<br>78-93-3<br>[BUTANONE]                  | 200 | 600               | Time Weighted Average (TWA): | Indicative                                   | ECTLV           |

|                                                               |     |      |                                      |                                      |        |
|---------------------------------------------------------------|-----|------|--------------------------------------|--------------------------------------|--------|
| Butanone<br>78-93-3<br>[BUTANONE]                             | 300 | 900  | Short Term Exposure<br>Limit (STEL): | Indicative                           | ECTLV  |
| Butanone<br>78-93-3<br>[METHYL ETHYL KETONE (MEK)]            | 300 | 900  | Short Term Exposure<br>Limit (STEL): | 15 minutes<br>Indicative OELV        | IR_OEL |
| Cyclohexanone<br>108-94-1<br>[CYCLOHEXANONE]                  | 10  | 40,8 | Time Weighted Average<br>(TWA):      | Indicative OELV                      | IR_OEL |
| Cyclohexanone<br>108-94-1<br>[CYCLOHEXANONE]                  |     |      | Skin designation:                    | Can be absorbed through the<br>skin. | IR_OEL |
| Cyclohexanone<br>108-94-1<br>[CYCLOHEXANONE]                  | 10  | 40,8 | Time Weighted Average<br>(TWA):      | Indicative                           | ECTLV  |
| Cyclohexanone<br>108-94-1<br>[CYCLOHEXANONE]                  | 20  | 81,6 | Short Term Exposure<br>Limit (STEL): | Indicative                           | ECTLV  |
| Cyclohexanone<br>108-94-1<br>[CYCLOHEXANONE]                  | 20  | 81,6 | Short Term Exposure<br>Limit (STEL): | 15 minutes<br>Indicative OELV        | IR_OEL |
| Cyclohexanone<br>108-94-1<br>[Cyclohexanone]                  |     |      | Skin designation:                    | Can be absorbed through the<br>skin. | ECTLV  |
| Polyvinyl chloride<br>9002-86-2<br>[POLYVINYL CHLORIDE (PVC)] |     | 1    | Time Weighted Average<br>(TWA):      |                                      | IR_OEL |
| Polyvinyl chloride<br>9002-86-2<br>[POLYVINYL CHLORIDE (PVC)] |     | 10   | Time Weighted Average<br>(TWA):      |                                      | IR_OEL |

**Predicted No-Effect Concentration (PNEC):**

| Name on list              | Environmental<br>Compartment       | Exposure<br>period | Value      |     |                 |        | Remarks |
|---------------------------|------------------------------------|--------------------|------------|-----|-----------------|--------|---------|
|                           |                                    |                    | mg/l       | ppm | mg/kg           | others |         |
| Butanone<br>78-93-3       | aqua<br>(freshwater)               |                    | 55,8 mg/l  |     |                 |        |         |
| Butanone<br>78-93-3       | aqua (marine<br>water)             |                    | 55,8 mg/l  |     |                 |        |         |
| Butanone<br>78-93-3       | aqua<br>(intermittent<br>releases) |                    | 55,8 mg/l  |     |                 |        |         |
| Butanone<br>78-93-3       | sewage<br>treatment plant<br>(STP) |                    | 709 mg/l   |     |                 |        |         |
| Butanone<br>78-93-3       | sediment<br>(freshwater)           |                    |            |     | 284,74<br>mg/kg |        |         |
| Butanone<br>78-93-3       | sediment<br>(marine water)         |                    |            |     | 284,7<br>mg/kg  |        |         |
| Butanone<br>78-93-3       | Soil                               |                    |            |     | 22,5 mg/kg      |        |         |
| Butanone<br>78-93-3       | oral                               |                    |            |     | 1000<br>mg/kg   |        |         |
| Cyclohexanone<br>108-94-1 | aqua<br>(freshwater)               |                    | 0,356 mg/l |     |                 |        |         |
| Cyclohexanone<br>108-94-1 | aqua (marine<br>water)             |                    | 0,036 mg/l |     |                 |        |         |
| Cyclohexanone<br>108-94-1 | sediment<br>(freshwater)           |                    |            |     | 2,69 mg/kg      |        |         |
| Cyclohexanone<br>108-94-1 | Soil                               |                    |            |     | 0,328<br>mg/kg  |        |         |
| Cyclohexanone<br>108-94-1 | sewage<br>treatment plant<br>(STP) |                    | 10 mg/l    |     |                 |        |         |
| Cyclohexanone<br>108-94-1 | Freshwater -<br>intermittent       |                    | 3,23 mg/l  |     |                 |        |         |
| Cyclohexanone<br>108-94-1 | sediment<br>(marine water)         |                    |            |     | 0,269<br>mg/kg  |        |         |

**Derived No-Effect Level (DNEL):**

| Name on list              | Application Area   | Route of Exposure | Health Effect                                | Exposure Time | Value      | Remarks |
|---------------------------|--------------------|-------------------|----------------------------------------------|---------------|------------|---------|
| Butanone<br>78-93-3       | Workers            | dermal            | Long term exposure - systemic effects        |               | 1161 mg/kg |         |
| Butanone<br>78-93-3       | Workers            | inhalation        | Long term exposure - systemic effects        |               | 600 mg/m3  |         |
| Butanone<br>78-93-3       | General population | dermal            | Long term exposure - systemic effects        |               | 412 mg/kg  |         |
| Butanone<br>78-93-3       | General population | inhalation        | Long term exposure - systemic effects        |               | 106 mg/m3  |         |
| Butanone<br>78-93-3       | General population | oral              | Long term exposure - systemic effects        |               | 31 mg/kg   |         |
| Cyclohexanone<br>108-94-1 | Workers            | Inhalation        | Acute/short term exposure - systemic effects |               | 80 mg/m3   |         |
| Cyclohexanone<br>108-94-1 | Workers            | dermal            | Acute/short term exposure - systemic effects |               | 4 mg/kg    |         |
| Cyclohexanone<br>108-94-1 | Workers            | Inhalation        | Acute/short term exposure - local effects    |               | 80 mg/m3   |         |
| Cyclohexanone<br>108-94-1 | Workers            | dermal            | Long term exposure - systemic effects        |               | 4 mg/kg    |         |
| Cyclohexanone<br>108-94-1 | Workers            | Inhalation        | Long term exposure - systemic effects        |               | 40 mg/m3   |         |
| Cyclohexanone<br>108-94-1 | Workers            | Inhalation        | Long term exposure - local effects           |               | 40 mg/m3   |         |
| Cyclohexanone<br>108-94-1 | General population | dermal            | Acute/short term exposure - systemic effects |               | 1 mg/kg    |         |
| Cyclohexanone<br>108-94-1 | General population | Inhalation        | Acute/short term exposure - systemic effects |               | 20 mg/m3   |         |
| Cyclohexanone<br>108-94-1 | General population | oral              | Acute/short term exposure - systemic effects |               | 1,5 mg/kg  |         |
| Cyclohexanone<br>108-94-1 | General population | Inhalation        | Acute/short term exposure - local effects    |               | 40 mg/m3   |         |
| Cyclohexanone<br>108-94-1 | General population | dermal            | Long term exposure - systemic effects        |               | 1 mg/kg    |         |
| Cyclohexanone<br>108-94-1 | General population | Inhalation        | Long term exposure - systemic effects        |               | 10 mg/m3   |         |
| Cyclohexanone<br>108-94-1 | General population | oral              | Long term exposure - systemic effects        |               | 1,5 mg/kg  |         |
| Cyclohexanone<br>108-94-1 | General population | Inhalation        | Long term exposure - local effects           |               | 20 mg/m3   |         |
| Cyclohexanone<br>108-94-1 | Workers            | dermal            | Acute/short term exposure - local effects    |               | 10 mg/kg   |         |

**Biological Exposure Indices:**

| Ingredient [Regulated substance]             | Parameters   | Biological specimen | Sampling time                | Conc. | Basis of biol. exposure index | Remark | Additional Information |
|----------------------------------------------|--------------|---------------------|------------------------------|-------|-------------------------------|--------|------------------------|
| Butanone<br>78-93-3<br>[BUTAN-2-ONE]         | Butan-2-one  | Urine               | Sampling time: End of shift. |       | UKEH40BMG<br>V                |        |                        |
| Cyclohexanone<br>108-94-1<br>[CYCLOHEXANONE] | cyclohexanol | Creatinine in urine | Sampling time: End of shift. |       | UKEH40BMG<br>V                |        |                        |

**8.2. Exposure controls:****Respiratory protection:**

Suitable breathing mask when there is inadequate ventilation.

Combination filter: ABEKP (EN 14387)

This recommendation should be matched to local conditions.

**Hand protection:**

Recommended are gloves made from Nitril rubber (Material thickness >0,1 mm, Perforation time < 30s). Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

In the case of longer contact protective gloves made from chloroprene rubber are recommended according to EN 374.

material thickness > 0.6 mm

Perforation time > 10 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

**Eye protection:**

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

**Skin protection:**

Suitable protective clothing

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

**Advices to personal protection equipment:**

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

Personal protective equipment should conform to the relevant EN standard.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                            |                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Delivery form              | liquid                                                                                                                              |
| Colour                     | Colourless / Colorless, Clear                                                                                                       |
| Odor                       | strong, of solvent                                                                                                                  |
| Physical state             | liquid                                                                                                                              |
| Melting point              | Not applicable, Product is a liquid                                                                                                 |
| Solidification temperature | -31 °C (-23.8 °F)                                                                                                                   |
| Initial boiling point      | 79 °C (174.2 °F) no method / method unknown                                                                                         |
| Flammability               | flammable                                                                                                                           |
| Explosive limits           |                                                                                                                                     |
| lower                      | 1,3 %(V); No data available.                                                                                                        |
| upper                      | 12,6 %(V); No data available.                                                                                                       |
| Flash point                | -4 °C (24.8 °F); no method / method unknown                                                                                         |
| Auto-ignition temperature  | 430 °C (806 °F)                                                                                                                     |
| Decomposition temperature  | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |

|                                                                              |                                                    |
|------------------------------------------------------------------------------|----------------------------------------------------|
| pH                                                                           | Product is non-soluble (in water),. Not applicable |
| Viscosity (kinematic)<br>(23 °C (73 °F); )                                   | 330 - 3.900 mm2/s                                  |
| Viscosity, dynamic<br>(Brookfield; 20 °C (68 °F))                            | 300 - 3.500 mPa.s no method / method unknown       |
| Solubility (qualitative)<br>(23 °C (73.4 °F); Solvent: Water)                | Partially soluble                                  |
| Solubility (qualitative)<br>(20 °C (68 °F); Solvent: ketones)                | Partially soluble                                  |
| Solubility (qualitative)<br>(20 °C (68 °F); Solvent: other organic solvents) | Partially soluble                                  |
| Partition coefficient: n-octanol/water                                       | Not applicable                                     |
| Vapour pressure<br>(50 °C (122 °F))                                          | Mixture<br>360 mbar                                |
| Vapour pressure<br>(20 °C (68 °F))                                           | 101 mbar                                           |
| Density<br>(23 °C (73.4 °F))                                                 | 0,90 - 0,92 g/cm3 no method / method unknown       |
| Relative vapour density:<br>(20 °C)                                          | = 1,17                                             |
| Particle characteristics                                                     | Not applicable<br>Product is a liquid              |

## 9.2. Other information

Other information not applicable for this product

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None if used for intended purpose.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

None if used for intended purpose.

### 10.5. Incompatible materials

None if used properly.

### 10.6. Hazardous decomposition products

None known.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity:**

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

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

| Hazardous substances<br>CAS-No. | Value<br>type | Value       | Species | Method                                   |
|---------------------------------|---------------|-------------|---------|------------------------------------------|
| Butanone<br>78-93-3             | LD50          | 2.193 mg/kg | rat     | OECD Guideline 423 (Acute Oral toxicity) |
| Cyclohexanone<br>108-94-1       | LD50          | 800 mg/kg   | rat     | 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.

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

| Hazardous substances<br>CAS-No. | Value<br>type | Value         | Species | Method        |
|---------------------------------|---------------|---------------|---------|---------------|
| Butanone<br>78-93-3             | LD50          | > 6.400 mg/kg | rabbit  | not specified |
| Cyclohexanone<br>108-94-1       | LD50          | 1.100 mg/kg   | rabbit  | not specified |

**Acute inhalative toxicity:**

The toxicity of the product is due to its narcotic effect after inhalation.

In the event of protracted or repeated exposure, damage to health cannot be excluded.

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

| Hazardous substances<br>CAS-No. | Value<br>type | Value     | Test atmosphere | Exposure<br>time | Species | Method        |
|---------------------------------|---------------|-----------|-----------------|------------------|---------|---------------|
| Butanone<br>78-93-3             | LC50          | 34,5 mg/l | vapour          | 4 h              | rat     | not specified |
| Cyclohexanone<br>108-94-1       | LC50          | 11 mg/l   | vapour          | 4 h              | rat     | not specified |

**Skin corrosion/irritation:**

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

| Hazardous substances<br>CAS-No. | Result         | Exposure<br>time | Species | Method                                                   |
|---------------------------------|----------------|------------------|---------|----------------------------------------------------------|
| Butanone<br>78-93-3             | not irritating | 4 h              | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Cyclohexanone<br>108-94-1       | 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<br>CAS-No. | Result     | Exposure<br>time | Species                      | Method                                                                         |
|---------------------------------|------------|------------------|------------------------------|--------------------------------------------------------------------------------|
| Butanone<br>78-93-3             | irritating |                  | rabbit                       | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Cyclohexanone<br>108-94-1       | corrosive  | 24 h             | rabbit                       | BASF Test                                                                      |
| Cyclohexanone<br>108-94-1       | corrosive  | 3,5 min          | Chicken, egg, in vitro assay | Hen's Egg Test – Chorioallantoic Membrane (HET-CAM)                            |

**Respiratory or skin sensitization:**

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

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

| Hazardous substances<br>CAS-No. | Result          | Test type    | Species    | Method                                                           |
|---------------------------------|-----------------|--------------|------------|------------------------------------------------------------------|
| Butanone<br>78-93-3             | not sensitising | Buehler test | guinea pig | equivalent or similar to 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.

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

| Hazardous substances<br>CAS-No. | Result   | Type of study /<br>Route of<br>administration          | Metabolic<br>activation /<br>Exposure time | Species | Method                                                                                               |
|---------------------------------|----------|--------------------------------------------------------|--------------------------------------------|---------|------------------------------------------------------------------------------------------------------|
| Butanone<br>78-93-3             | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | equivalent or similar to OECD<br>Guideline 471 (Bacterial<br>Reverse Mutation Assay)                 |
| Butanone<br>78-93-3             | negative | in vitro mammalian<br>chromosome<br>aberration test    | not applicable                             |         | equivalent or similar to OECD<br>Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test) |
| Butanone<br>78-93-3             | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | equivalent or similar to OECD<br>Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)    |
| Cyclohexanone<br>108-94-1       | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | not specified                                                                                        |
| Butanone<br>78-93-3             | negative | intraperitoneal                                        |                                            | mouse   | equivalent or similar to OECD<br>Guideline 474 (Mammalian<br>Erythrocyte Micronucleus<br>Test)       |

**Carcinogenicity**

No data available.

**Reproductive toxicity:**

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

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

| Hazardous substances<br>CAS-No. | Result / Value                              | Test type                   | Route of<br>application    | Species | Method                                                                                             |
|---------------------------------|---------------------------------------------|-----------------------------|----------------------------|---------|----------------------------------------------------------------------------------------------------|
| Butanone<br>78-93-3             | NOAEL P 10.000 mg/l<br>NOAEL F1 10.000 mg/l | two-<br>generation<br>study | oral:<br>drinking<br>water | rat     | equivalent or similar to<br>OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study) |

**STOT-single exposure:**

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

| Hazardous substances<br>CAS-No. | Assessment                            | Route of<br>exposure | Target Organs | Remarks |
|---------------------------------|---------------------------------------|----------------------|---------------|---------|
| Butanone<br>78-93-3             | May cause drowsiness or<br>dizziness. |                      |               |         |

**STOT-repeated exposure:**

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

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

| Hazardous substances<br>CAS-No. | Result / Value | Route of<br>application | Exposure time /<br>Frequency of<br>treatment | Species | Method        |
|---------------------------------|----------------|-------------------------|----------------------------------------------|---------|---------------|
| Butanone<br>78-93-3             | NOAEL 2500 ppm | inhalation              | 90 days<br>6 hours/day, 5<br>days/week       | rat     | not specified |

**Aspiration hazard:**

The mixture is classified based on Viscosity data.

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

| Hazardous substances<br>CAS-No. | Viscosity (kinematic)<br>Value | Temperature | Method              | Remarks |
|---------------------------------|--------------------------------|-------------|---------------------|---------|
| Butanone<br>78-93-3             | 0,51 mm <sup>2</sup> /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<br>CAS-No. | Value<br>type | Value          | Exposure time | Species             | Method                                            |
|---------------------------------|---------------|----------------|---------------|---------------------|---------------------------------------------------|
| Butanone<br>78-93-3             | LC50          | 3.220 mg/l     | 96 h          | Pimephales promelas | OECD Guideline 203 (Fish,<br>Acute Toxicity Test) |
| Cyclohexanone<br>108-94-1       | LC50          | 527 - 732 mg/l | 96 h          | Pimephales promelas | OECD Guideline 203 (Fish,<br>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<br>CAS-No. | Value<br>type | Value      | Exposure time | Species       | Method                                                           |
|---------------------------------|---------------|------------|---------------|---------------|------------------------------------------------------------------|
| Butanone<br>78-93-3             | EC50          | 5.091 mg/l | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| Cyclohexanone<br>108-94-1       | EC50          | 820 mg/l   | 24 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |

**Chronic toxicity (aquatic invertebrates):**

No data available.

**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<br>CAS-No. | Value<br>type | Value      | Exposure time | Species                         | Method                                               |
|---------------------------------|---------------|------------|---------------|---------------------------------|------------------------------------------------------|
| Butanone<br>78-93-3             | EC50          | 1.240 mg/l | 96 h          | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Butanone<br>78-93-3             | EC10          | 1.010 mg/l | 96 h          | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Cyclohexanone<br>108-94-1       | EC50          | 32,9 mg/l  | 72 h          | Chlamydomonas reinhardtii       | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Cyclohexanone<br>108-94-1       | EC10          | 3,56 mg/l  | 72 h          | Chlamydomonas reinhardtii       | OECD Guideline 201 (Alga,<br>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<br>CAS-No. | Value<br>type | Value        | Exposure time | Species                    | Method                                                                   |
|---------------------------------|---------------|--------------|---------------|----------------------------|--------------------------------------------------------------------------|
| Butanone<br>78-93-3             | EC50          | 1.150 mg/l   | 16 h          | Pseudomonas putida         | DIN 38412, part 8<br>(Pseudomonas<br>Zellvermehrungshemm-<br>Test)       |
| Cyclohexanone<br>108-94-1       | EC50          | > 1.000 mg/l | 30 min        | activated sludge, domestic | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test) |

#### 12.2. Persistence and degradability

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

| Hazardous substances<br>CAS-No. | Result                | Test type | Degradability | Exposure<br>time | Method                                                                            |
|---------------------------------|-----------------------|-----------|---------------|------------------|-----------------------------------------------------------------------------------|
| Butanone<br>78-93-3             | readily biodegradable | aerobic   | 98 %          | 28 d             | OECD Guideline 301 D (Ready<br>Biodegradability: Closed Bottle<br>Test)           |
| Cyclohexanone<br>108-94-1       | readily biodegradable | aerobic   | 90 - 100 %    | 28 d             | OECD Guideline 301 F (Ready<br>Biodegradability: Manometric<br>Respirometry 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<br>CAS-No. | LogPow | Temperature | Method                                                                             |
|---------------------------------|--------|-------------|------------------------------------------------------------------------------------|
| Butanone<br>78-93-3             | 0,3    | 40 °C       | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)        |
| Cyclohexanone<br>108-94-1       | 0,86   | 25 °C       | 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<br>CAS-No. | PBT / vPvB                                                                                                            |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Butanone<br>78-93-3             | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Cyclohexanone<br>108-94-1       | 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:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

080409

## SECTION 14: Transport information

### 14.1. UN number or ID number

|      |      |
|------|------|
| ADR  | 1133 |
| RID  | 1133 |
| ADN  | 1133 |
| IMDG | 1133 |
| IATA | 1133 |

### 14.2. UN proper shipping name

|      |           |
|------|-----------|
| ADR  | ADHESIVES |
| RID  | ADHESIVES |
| ADN  | ADHESIVES |
| IMDG | ADHESIVES |
| IATA | Adhesives |

### 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<br>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

No information available:

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

|                                                                |                |
|----------------------------------------------------------------|----------------|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 2024/590): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):    | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021):     | Not applicable |

### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

## 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.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
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:

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.**