



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

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TEROSON UP 120 CAN326G GFD

SDS No. : 603442
V001.1

Revision: 20.12.2017

printing date: 03.09.2019

Replaces version from: 05.05.2017

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

1.1. Product identifier

TEROSON UP 120 CAN326G GFD

Contains:

Styrene

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

Intended use:

2K Filler paste

1.3. Details of the supplier of the safety data sheet

Henkel Ltd

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000

Fax-no.: +44 1442 278071

ua-productsafety.uk@henkel.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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

| | |
|--|------------|
| Flammable liquids | Category 3 |
| H226 Flammable liquid and vapor. | |
| Skin irritation | Category 2 |
| H315 Causes skin irritation. | |
| Serious eye irritation | Category 2 |
| H319 Causes serious eye irritation. | |
| Toxic to reproduction | Category 2 |
| H361d Suspected of damaging the unborn child. | |
| Specific target organ toxicity - repeated exposure | Category 1 |
| H372 Causes damage to organs through prolonged or repeated exposure. | |

2.2. Label elements

Label elements (CLP):

Hazard pictogram:**Signal word:** Danger

Hazard statement:
 H226 Flammable liquid and vapor.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H361d Suspected of damaging the unborn child.
 H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statement: P201 Obtain special instructions before use.
Prevention P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
 No smoking.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement: P302+P352 IF ON SKIN: Wash with plenty of water.
Response P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P370+P378 In case of fire: Use CO₂, dry chemical, or foam for extinction.

Precautionary statement: P501 Dispose of contents/container in accordance with national regulation.
Disposal

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients**3.2. Mixtures****General chemical description:**

Car-care product

Base substances of preparation:

Polyester

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

| Hazardous components CAS-No. | EC Number REACH-Reg No. | content | Classification |
|---------------------------------|-------------------------------|------------|---|
| Styrene 100-42-5 | 202-851-5 01-2119457861-32 | 10- < 20 % | Flam. Liq. 3 H226 Acute Tox. 4 H332 Asp. Tox. 1 H304 Eye Irrit. 2 H319 Skin Irrit. 2 H315 STOT RE 1; Inhalation H372 Repr. 2 H361d Aquatic Chronic 3 H412 STOT SE 3 H335 |

**For full text of the H - statements and other abbreviations see section 16 "Other information".
 Substances without classification may have community workplace exposure limits available.**

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

IF ON SKIN: Wash with plenty of soap and water.

In case of adverse health effects seek medical advice.

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.

SKIN: Redness, inflammation.

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

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

Dispose of contaminated material as waste according to Section 13.

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

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:

Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.
Take off contaminated clothing and wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.
Temperatures between + 5 °C and + 35 °C
Store in a cool, dry place.
Keep container tightly sealed.

7.3. Specific end use(s)

2K Filler paste

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|-----|-------------------|-----------------------------------|--|-----------------|
| Dolomite 16389-88-1 [DUST, INHALABLE DUST] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Dolomite 16389-88-1 [DUST, RESPIRABLE DUST] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| Styrene 100-42-5 [STYRENE] | 250 | 1.080 | Short Term Exposure Limit (STEL): | | EH40 WEL |
| Styrene 100-42-5 [STYRENE] | 100 | 430 | Time Weighted Average (TWA): | | EH40 WEL |

Occupational Exposure Limits

Valid for
Ireland

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|-----------------------------------|--|-----------------|
| Dolomite 16389-88-1 [DUSTS, NON-SPECIFIC, RESPIRABLE] | | 4 | Time Weighted Average (TWA): | | IR_OEL |
| Dolomite 16389-88-1 [DUSTS, NON-SPECIFIC, TOTAL INHALABLE] | | 10 | Time Weighted Average (TWA): | | IR_OEL |
| Styrene 100-42-5 [STYRENE] | 20 | 85 | Time Weighted Average (TWA): | | IR_OEL |
| Styrene 100-42-5 [STYRENE] | 40 | 170 | Short Term Exposure Limit (STEL): | | IR_OEL |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|------------------|------------------------------|-----------------|------------|-----|-------------|--------|---------|
| | | | mg/l | ppm | mg/kg | others | |
| Styrene 100-42-5 | aqua (freshwater) | | 0,028 mg/l | | | | |
| Styrene 100-42-5 | aqua (marine water) | | 0,014 mg/l | | | | |
| Styrene 100-42-5 | aqua (intermittent releases) | | 0,04 mg/l | | | | |
| Styrene 100-42-5 | sewage treatment plant (STP) | | 5 mg/l | | | | |
| Styrene 100-42-5 | sediment (freshwater) | | | | 0,614 mg/kg | | |
| Styrene 100-42-5 | sediment (marine water) | | | | 0,307 mg/kg | | |
| Styrene 100-42-5 | soil | | | | 0,2 mg/kg | | |
| Styrene 100-42-5 | Air | | | | | | |
| Styrene 100-42-5 | Predator | | | | | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|------------------|--------------------|-------------------|--|---------------|--------------|---------|
| Styrene 100-42-5 | Workers | Inhalation | Acute/short term exposure - systemic effects | | 289 mg/m3 | |
| Styrene 100-42-5 | Workers | Inhalation | Acute/short term exposure - local effects | | 306 mg/m3 | |
| Styrene 100-42-5 | Workers | dermal | Long term exposure - systemic effects | | 406 mg/kg | |
| Styrene 100-42-5 | Workers | Inhalation | Long term exposure - systemic effects | | 85 mg/m3 | |
| Styrene 100-42-5 | General population | Inhalation | Acute/short term exposure - systemic effects | | 174,25 mg/m3 | |
| Styrene 100-42-5 | General population | Inhalation | Acute/short term exposure - local effects | | 182,75 mg/m3 | |
| Styrene 100-42-5 | General population | dermal | Long term exposure - systemic effects | | 343 mg/kg | |
| Styrene 100-42-5 | General population | Inhalation | Long term exposure - systemic effects | | 10,2 mg/m3 | |
| Styrene 100-42-5 | General population | oral | Long term exposure - systemic effects | | 2,1 mg/kg | |

Biological Exposure Indices:

None

8.2. Exposure controls:Engineering controls:
Ensure good ventilation/extraction.

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): Fluorinated rubber (FKM; ≥ 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Fluorinated rubber (FKM; ≥ 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).

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

| | |
|--|------------------------------------|
| Appearance | paste liquid black |
| Odor | characteristic |
| Odour threshold | No data available / Not applicable |
| pH | No data available / Not applicable |
| Melting point | No data available / Not applicable |
| Solidification temperature | No data available / Not applicable |
| Initial boiling point | 145 °C (293 °F) |
| Flash point | 32 °C (89.6 °F) |
| Evaporation rate | No data available / Not applicable |
| Flammability | No data available / Not applicable |
| Explosive limits | No data available / Not applicable |
| Vapour pressure | No data available / Not applicable |
| Relative vapour density: | No data available / Not applicable |
| Density (20 °C (68 °F)) | 1,84 g/cm ³ |
| Bulk density | No data available / Not applicable |
| Solubility | No data available / Not applicable |
| Solubility (qualitative) | No data available / Not applicable |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Auto-ignition temperature | No data available / Not applicable |
| Decomposition temperature | No data available / Not applicable |
| Viscosity | No data available / Not applicable |
| Viscosity (kinematic) | No data available / Not applicable |
| Explosive properties | No data available / Not applicable |
| Oxidising properties | No data available / Not applicable |

9.2. Other information

No data available / Not applicable
max. VOC content:

50 g/l

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reaction with strong acids.
Reaction with strong bases
Reacts with alkalis.

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 toxicological effects****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 |
|---------------------------------|---------------|------------------------|---------|---------------|
| Styrene 100-42-5 | LD50 | 6.600 - 8.000 mg/kg | rat | not specified |

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 |
|---------------------------------|---------------|---------------|---------|--|
| Styrene 100-42-5 | 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 |
|---------------------------------|---------------|-----------|-----------------|------------------|---------|---------------|
| Styrene 100-42-5 | LC50 | 11,8 mg/l | vapour | 4 h | rat | not specified |

Skin corrosion/irritation:

No data available.

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 |
|---------------------------------|-----------------|---------------------------------|------------|------------------------------|
| Styrene 100-42-5 | not sensitising | Guinea pig maximisation test | guinea pig | Magnusson and Kligman 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 |
|---------------------------------|----------|--|--|---------|---|
| Styrene 100-42-5 | positive | sister chromatid exchange assay in mammalian cells | with and without | | OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells) |
| Styrene 100-42-5 | negative | inhalation: vapour | | 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 |
|---------------------------------|------------------|-------------------------|---|---------|-------------|--|
| Styrene 100-42-5 | not carcinogenic | inhalation: vapour | 104 w 6 h/d, 5 d/w | 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 |
|---------------------------------|-------------------|-------------------------|--|---------|---------------|
| Styrene 100-42-5 | NOAEL 1.000 mg/kg | oral: gavage | daily (5 d/w) | rat | not specified |

Aspiration hazard:

No data available.

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.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---------------------------------|---------------|-----------|---------------|---------------------|--|
| Styrene 100-42-5 | LC50 | 4,02 mg/l | 96 h | Pimephales promelas | EU Method C.1 (Acute Toxicity for Fish) |

Toxicity (Daphnia):

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

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---------------------------------|---------------|----------|---------------|---------------|--|
| Styrene 100-42-5 | EC50 | 4,7 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

Chronic toxicity to aquatic invertebrates

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

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---------------------------------|---------------|-----------|---------------|---------------|--|
| Styrene 100-42-5 | NOEC | 1,01 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.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---------------------------------|---------------|-----------|---------------|---|--|
| Styrene 100-42-5 | EC10 | 0,28 mg/l | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | EPA OTS 797.1050 (Algal Toxicity, Tiers I and II) |
| Styrene 100-42-5 | EC50 | 6,3 mg/l | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | EPA OTS 797.1050 (Algal Toxicity, Tiers I and II) |

Toxicity to microorganisms

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

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---------------------------------|---------------|----------|---------------|--|--|
| Styrene 100-42-5 | EC50 | 500 mg/l | 30 min | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

12.2. Persistence and degradability

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|---------------------------------|--------------------------|-----------|---------------|------------------|---|
| Styrene 100-42-5 | readily biodegradable | aerobic | 70,9 % | 28 d | ISO DIS 9408 (Ultimate Aerobic Biodegradability Method by Determining the Oxygen Demand in a Closed Respirometer) |
| Styrene 100-42-5 | inherently biodegradable | aerobic | 100 % | 14 d | OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II)) |

12.3. Bioaccumulative potential

| Hazardous substances CAS-No. | Bioconcentration factor (BCF) | Exposure time | Temperature | Species | Method |
|---------------------------------|-------------------------------|---------------|-------------|---------|------------------|
| Styrene 100-42-5 | 74 | | | | other guideline: |

12.4. Mobility in soil

| Hazardous substances CAS-No. | LogPow | Temperature | Method |
|---------------------------------|--------|-------------|--|
| Styrene 100-42-5 | 2,96 | 25 °C | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |

12.5. Results of PBT and vPvB assessment

| Hazardous substances CAS-No. | PBT / vPvB |
|---------------------------------|---|
| Styrene 100-42-5 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

12.6. 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.

080111

SECTION 14: Transport information**14.1. UN number**

| | |
|------|------|
| ADR | 1866 |
| RID | 1866 |
| ADN | 1866 |
| IMDG | 1866 |
| IATA | 1866 |

14.2. UN proper shipping name

| | |
|------|----------------|
| ADR | RESIN SOLUTION |
| RID | RESIN SOLUTION |
| ADN | RESIN SOLUTION |
| IMDG | RESIN SOLUTION |
| IATA | Resin solution |

14.3. Transport hazard class(es)

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

14.4. Packing group

| | |
|------|-----|
| ADR | III |
| RID | III |
| ADN | III |
| IMDG | III |
| IATA | III |

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 640E Tunnelcode: (D/E) |
| RID | Special provision 640E |
| ADN | Special provision 640E |
| IMDG | not applicable |
| IATA | not applicable |

When transporting as a set (component A and B) then the following dangerous good classification is used: UN 3269 Polyester resin kit, 3, III.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

VOC content 0 %
(VOCV 814.018 VOC regulation
CH)

VOC content 19,0 %
(2010/75/EU)

VOC Paints and Varnishes (EU):

| | |
|---------------------------|-------------------------|
| Regulatory Basis: | Directive 2004/42/EC |
| Product (sub)category: | B(b) Bodyfiller/stopper |
| Phase I (from 1.1.2007): | 250 g/l |
| Phase II (from 1.1.2010): | 250,00 g/l |
| max. VOC content: | 50 g/l |

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:

- H226 Flammable liquid and vapor.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

Further information:

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.

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 Regulation (EC) No 1907/2006

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TEROSON UP 120 CAN326G GFD

SDS No. : 572846
V001.1

Revision: 20.12.2017

printing date: 03.09.2019

Replaces version from: 20.11.2017

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

1.1. Product identifier

TEROSON UP 120 CAN326G GFD

Contains:

Dibenzoyl peroxide

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

Intended use:

hardener component

1.3. Details of the supplier of the safety data sheet

Henkel Ltd
Wood Lane End
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000

Fax-no.: +44 1442 278071

ua-productsafety.uk@henkel.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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

| | |
|--|------------|
| Serious eye irritation | Category 2 |
| H319 Causes serious eye irritation. | |
| Skin sensitizer | Category 1 |
| H317 May cause an allergic skin reaction. | |
| Acute hazards to the aquatic environment | Category 1 |
| H400 Very toxic to aquatic life. | |
| Chronic hazards to the aquatic environment | Category 1 |
| H410 Very toxic to aquatic life with long lasting effects. | |
| Organic peroxides | Type E |
| | Type F |
| H242 Heating may cause a fire. | |

2.2. Label elements

Label elements (CLP):

Hazard pictogram:**Signal word:**

Warning

Hazard statement:

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.
H242 Heating may cause a fire.

Precautionary statement:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P280 Wear protective gloves/protective clothing/eye protection/face 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.

**Precautionary statement:
Prevention**

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P273 Avoid release to the environment.

**Precautionary statement:
Disposal**

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

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients**3.2. Mixtures****General chemical description:**

Hardener

Base substances of preparation:

Dibenzoyl peroxide

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

| Hazardous components CAS-No. | EC Number REACH-Reg No. | content | Classification |
|---------------------------------|-------------------------------|----------|---|
| Dibenzoyl peroxide 94-36-0 | 202-327-6 01-2119511472-50 | 45- 52 % | Org. Perox. B H241 Eye Irrit. 2 H319 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M factor (Acute Aquat Tox): 10 M factor (Chron Aquat Tox): 10 |

For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures**4.1. Description of first aid measures**

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

IF ON SKIN: Wash with plenty of soap and water.

In case of adverse health effects seek medical advice.

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.

SKIN: Rash, Urticaria.

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 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.

Inform authorities in the event of product spillage to water courses or sewage systems.

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

Use only in well-ventilated areas.
 Avoid open flames and sources of ignition.
 Take measures to prevent the build-up of electrostatic charges.
 No smoking.

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

Store in sealed original container.
 Ensure good ventilation/extraction.
 Store in a cool, dry place.
 Temperatures between 0 °C and + 30 °C
 Keep away from heat and direct sunlight.
 Do not store together with food or other consumables (coffee, tea, tobacco, etc.).
 Do not store together with oxidants.
 Do not store together with reductants.

7.3. Specific end use(s)

hardener component

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

Valid for
 Great Britain

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|-----------------------------------|--|-----------------|
| Dibenzoyl peroxide 94-36-0 [DIBENZOYL PEROXIDE] | | 5 | Time Weighted Average (TWA): | | EH40 WEL |
| Dimethyl phthalate 131-11-3 [DIMETHYL PHTHALATE] | | 5 | Time Weighted Average (TWA): | | EH40 WEL |
| Dimethyl phthalate 131-11-3 [DIMETHYL PHTHALATE] | | 10 | Short Term Exposure Limit (STEL): | | EH40 WEL |

Occupational Exposure Limits

Valid for
 Ireland

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|-----------------------------------|--|-----------------|
| Dibenzoyl peroxide 94-36-0 [DIBENZOYL PEROXIDE] | | 5 | Time Weighted Average (TWA): | | IR_OEL |
| Dimethyl phthalate 131-11-3 [DIMETHYL PHTHALATE] | | 10 | Short Term Exposure Limit (STEL): | | IR_OEL |
| Dimethyl phthalate 131-11-3 [DIMETHYL PHTHALATE] | | 5 | Time Weighted Average (TWA): | | IR_OEL |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|----------------------------|------------------------------|-----------------|---------------|-----|--------------|--------|---------|
| | | | mg/l | ppm | mg/kg | others | |
| Dibenzoyl peroxide 94-36-0 | aqua (freshwater) | | 0,000602 mg/l | | | | |
| Dibenzoyl peroxide 94-36-0 | aqua (marine water) | | 0,00006 mg/l | | | | |
| Dibenzoyl peroxide 94-36-0 | aqua (intermittent releases) | | 0,000602 mg/l | | | | |
| Dibenzoyl peroxide 94-36-0 | sewage treatment plant (STP) | | 0,35 mg/l | | | | |
| Dibenzoyl peroxide 94-36-0 | sediment (freshwater) | | | | 0,338 mg/kg | | |
| Dibenzoyl peroxide 94-36-0 | soil | | | | 0,0758 mg/kg | | |
| Dibenzoyl peroxide 94-36-0 | oral | | | | 6,67 mg/kg | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|----------------------------|--------------------|-------------------|---------------------------------------|---------------|-------------|---------|
| Dibenzoyl peroxide 94-36-0 | Workers | Inhalation | Long term exposure - systemic effects | | 11,75 mg/m3 | |
| Dibenzoyl peroxide 94-36-0 | Workers | dermal | Long term exposure - systemic effects | | 6,6 mg/kg | |
| Dibenzoyl peroxide 94-36-0 | General population | Inhalation | Long term exposure - systemic effects | | 2,9 mg/m3 | |
| Dibenzoyl peroxide 94-36-0 | General population | dermal | Long term exposure - systemic effects | | 3,3 mg/kg | |
| Dibenzoyl peroxide 94-36-0 | General population | oral | Long term exposure - systemic effects | | 1,65 mg/kg | |

Biological Exposure Indices:
None**8.2. Exposure controls:**

Engineering controls:
Ensure good ventilation/extraction.

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.

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):

nitrile rubber (NBR; \geq 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; \geq 0.4 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).

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

| | |
|---|--|
| Appearance | paste pasty varied, according to coloration |
| Odor | characteristic |
| Odour threshold | No data available / Not applicable |
| pH | No data available / Not applicable |
| Melting point | No data available / Not applicable |
| Solidification temperature | No data available / Not applicable |
| Initial boiling point | No data available / Not applicable |
| Flash point | No data available / Not applicable |
| Evaporation rate | No data available / Not applicable |
| Flammability | No data available / Not applicable |
| Explosive limits | No data available / Not applicable |
| Vapour pressure | No data available / Not applicable |
| Relative vapour density: | No data available / Not applicable |
| Density (20 °C (68 °F)) | 1,1 g/cm ³ |
| Bulk density | No data available / Not applicable |
| Solubility | No data available / Not applicable |
| Solubility (qualitative) (23 °C (73.4 °F); Solvent: Water) | Insoluble |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Auto-ignition temperature | No data available / Not applicable |
| Decomposition temperature | No data available / Not applicable |
| Viscosity | No data available / Not applicable |
| Viscosity (kinematic) | No data available / Not applicable |
| Explosive properties | No data available / Not applicable |
| Oxidising properties | No data available / Not applicable |

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reaction with reducing agents.
Reaction with amines
Reaction with strong acids.
Reacts with alkalis.
Heavy metals.

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

See section reactivity.

10.6. Hazardous decomposition products

No decomposition if used according to specifications.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****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 |
|---------------------------------|---------------|---------------|---------|---------------|
| Dibenzoyl peroxide 94-36-0 | LD50 | > 5.000 mg/kg | rat | not specified |

Acute dermal toxicity:

No data available.

Acute inhalative toxicity:

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

| Hazardous substances CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|---------------------------------|---------------|-------------|-----------------|------------------|---------|---------------|
| Dibenzoyl peroxide 94-36-0 | LC50 | > 24,3 mg/l | vapour | 4 h | rat | not specified |

Skin corrosion/irritation:

No data available.

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 |
|---------------------------------|-------------|---------------------------------------|---------|--|
| Dibenzoyl peroxide 94-36-0 | sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |

Germ cell mutagenicity:

No data available.

Carcinogenicity

No data available.

Reproductive toxicity:

No data available.

STOT-single exposure:

No data available.

STOT-repeated exposure::

No data available.

Aspiration hazard:

No data available.

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.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|------------------------------|------------|-----------|---------------|---------------------|--|
| Dibenzoyl peroxide 94-36-0 | LC50 | 0,06 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |

Toxicity (Daphnia):

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

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|------------------------------|------------|-----------|---------------|---------------|--|
| Dibenzoyl peroxide 94-36-0 | EC50 | 0,11 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

Chronic toxicity to aquatic invertebrates

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

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|------------------------------|------------|------------|---------------|---------------|---|
| Dibenzoyl peroxide 94-36-0 | EC10 | 0,001 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.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|------------------------------|------------|------------|---------------|---------------------------------|---|
| Dibenzoyl peroxide 94-36-0 | ErC50 | 0,071 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Dibenzoyl peroxide 94-36-0 | NOEC | 0,02 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |

Toxicity to microorganisms

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

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|------------------------------|------------|---------|---------------|---------|--|
| Dibenzoyl peroxide 94-36-0 | EC 50 | 35 mg/l | 3 h | | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

12.2. Persistence and degradability

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|------------------------------|-----------------------|-----------|---------------|---------------|---|
| Dibenzoyl peroxide 94-36-0 | readily biodegradable | aerobic | 71 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |

12.3. Bioaccumulative potential

| Hazardous substances CAS-No. | Bioconcentration factor (BCF) | Exposure time | Temperature | Species | Method |
|---------------------------------|-------------------------------|---------------|-------------|---------|---|
| Dibenzoyl peroxide 94-36-0 | 66,6 | | | fish | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) |

12.4. Mobility in soil

| Hazardous substances CAS-No. | LogPow | Temperature | Method |
|---------------------------------|--------|-------------|---|
| Dibenzoyl peroxide 94-36-0 | 3,2 | 22 °C | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |

12.5. Results of PBT and vPvB assessment

| Hazardous substances CAS-No. | PBT / vPvB |
|---------------------------------|---|
| Dibenzoyl peroxide 94-36-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

12.6. 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.

080409

SECTION 14: Transport information**14.1. UN number**

| | |
|------|------|
| ADR | 3108 |
| RID | 3108 |
| ADN | 3108 |
| IMDG | 3108 |
| IATA | 3108 |

14.2. UN proper shipping name

| | |
|------|---|
| ADR | ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE) |
| RID | ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE) |
| ADN | ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE) |
| IMDG | ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE) |
| IATA | Organic peroxide type E, solid (Dibenzoyl peroxide) |

14.3. Transport hazard class(es)

| | |
|------|------------|
| ADR | 5.2 |
| RID | 5.2 |
| ADN | 5.2 |
| IMDG | 5.2 |
| IATA | 5.2 (HEAT) |

14.4. Packing group

ADR
RID
ADN
IMDG
IATA

14.5. Environmental hazards

| | |
|------|---------------------------|
| ADR | Environmentally Hazardous |
| RID | Environmentally Hazardous |
| ADN | Environmentally Hazardous |
| IMDG | Marine pollutant |
| IATA | not applicable |

14.6. Special precautions for user

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

When transporting as a set (component A and B) then the following dangerous good classification is used: UN 3269 Polyester resin kit, 3, III.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

VOC content 0 %
(VOCV 814.018 VOC regulation)

CH)
VOC content 0 %
(2010/75/EU)

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:

- H241 Heating may cause a fire or explosion.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

Further information:

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.

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.