



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

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TEROSON MS 935 BK

SDS No. : 521095
V002.0

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

1.1. Product identifier

TEROSON MS 935 BK

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

Intended use:

MS Adhesive

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):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

2.2. Label elements

Label elements (CLP):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

Supplemental information EUH210 Safety data sheet available on request.

2.3. Other hazards

None if used properly.

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:**

adhesive and sealant

Base substances of preparation:

Polyether

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

| Hazardous components CAS-No. | EC Number REACH-Reg No. | content | Classification |
|------------------------------------|-------------------------------|----------|---|
| Trimethoxyvinylsilane 2768-02-7 | 220-449-8 01-2119513215-52 | 1- < 3 % | Flam. Liq. 3 H226 Acute Tox. 4; Inhalation H332 STOT RE 2; Inhalation H373 |

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:

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

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

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

No data available.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media:**

All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In case of fire toxic gases can be released.

5.3. Advice for firefighters

Wear protective equipment.

Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Remove mechanically.

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.

Store in a cool, well-ventilated place.

Storage at 15 to 25°C is recommended.

7.3. Specific end use(s)

MS Adhesive

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 |
|---|-----|-------------------|-----------------------------------|--|-----------------|
| Calcium carbonate 471-34-1 [CALCIUM CARBONATE, INHALABLE DUST] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Calcium carbonate 471-34-1 [CALCIUM CARBONATE, RESPIRABLE DUST] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| Calcium carbonate 471-34-1 [LIMESTONE, RESPIRABLE MARBLE, RESPIRABLE] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| Calcium carbonate 471-34-1 [LIMESTONE, TOTAL INHALABLE MARBLE, TOTAL INHALABLE] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Carbon black 1333-86-4 [CARBON BLACK] | | 3,5 | Time Weighted Average (TWA): | | EH40 WEL |
| Carbon black 1333-86-4 [CARBON BLACK] | | 7 | Short Term Exposure Limit (STEL): | | EH40 WEL |

Occupational Exposure LimitsValid for
Ireland

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|------------------------------|--|-----------------|
| Calcium carbonate 471-34-1 [CALCIUM CARBONATE, RESPIRABLE DUST] | | 4 | Time Weighted Average (TWA): | | IR_OEL |
| Calcium carbonate 471-34-1 [CALCIUM CARBONATE, TOTAL INHALABLE DUST] | | 10 | Time Weighted Average (TWA): | | IR_OEL |
| Carbon black 1333-86-4 [CARBON BLACK (INHALABLE FRACTION)] | | 3 | 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 | |
| Trimethoxyvinylsilane 2768-02-7 | aqua (freshwater) | | 0,36 mg/l | | | | |
| Trimethoxyvinylsilane 2768-02-7 | aqua (marine water) | | 0,036 mg/l | | | | |
| Trimethoxyvinylsilane 2768-02-7 | aqua (intermittent releases) | | 2,4 mg/l | | | | |
| Trimethoxyvinylsilane 2768-02-7 | sewage treatment plant (STP) | | 6,6 mg/l | | | | |
| Trimethoxyvinylsilane 2768-02-7 | sediment (freshwater) | | | | 1,3 mg/kg | | |
| Trimethoxyvinylsilane 2768-02-7 | sediment (marine water) | | | | 0,13 mg/kg | | |
| Trimethoxyvinylsilane 2768-02-7 | soil | | | | 0,055 mg/kg | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|------------------------------------|--------------------|-------------------|--|---------------|-----------------------|---------|
| Trimethoxyvinylsilane 2768-02-7 | Workers | dermal | Long term exposure - systemic effects | | 0,2 mg/kg | |
| Trimethoxyvinylsilane 2768-02-7 | Workers | Inhalation | Long term exposure - systemic effects | | 2,6 mg/m ³ | |
| Trimethoxyvinylsilane 2768-02-7 | General population | dermal | Acute/short term exposure - systemic effects | | 0,1 mg/kg | |
| Trimethoxyvinylsilane 2768-02-7 | General population | Inhalation | Acute/short term exposure - systemic effects | | 0,7 mg/m ³ | |
| Trimethoxyvinylsilane 2768-02-7 | General population | dermal | Long term exposure - systemic effects | | 0,1 mg/kg | |
| Trimethoxyvinylsilane 2768-02-7 | General population | Inhalation | Long term exposure - systemic effects | | 0,7 mg/m ³ | |
| Trimethoxyvinylsilane 2768-02-7 | General population | oral | Long term exposure - systemic effects | | 0,1 mg/kg | |
| Trimethoxyvinylsilane 2768-02-7 | Workers | dermal | Acute/short term exposure - systemic effects | | 0,2 mg/kg | |
| Trimethoxyvinylsilane 2768-02-7 | Workers | Inhalation | Acute/short term exposure - systemic effects | | 2,6 mg/m ³ | |

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

Eye protection:

Protective goggles

Protective eye equipment should conform to EN166.

Skin protection:

Wear protective equipment.

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 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 | No data available / Not applicable |
| Flash point | 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)) | 1,35 - 1,45 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

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

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 |
|------------------------------------|---------------|-------------|---------|--|
| Trimethoxyvinylsilane 2768-02-7 | LD50 | 7.120 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.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|------------------------------------|---------------|-------------|---------|---------------|
| Trimethoxyvinylsilane 2768-02-7 | LD50 | 3.540 mg/kg | rabbit | not specified |

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 |
|------------------------------------|---------------|-----------|-----------------|------------------|---------|--|
| Trimethoxyvinylsilane 2768-02-7 | LC50 | 16,8 mg/l | vapour | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |

Skin corrosion/irritation:

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

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|------------------------------------|----------------|------------------|---------|------------------|
| Trimethoxyvinylsilane 2768-02-7 | not irritating | | rabbit | other guideline: |

Serious eye damage/irritation:

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

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|------------------------------------|----------------|------------------|---------|---|
| Trimethoxyvinylsilane 2768-02-7 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

Respiratory or skin sensitization:

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

| Hazardous substances CAS-No. | Result | Test type | Species | Method |
|------------------------------------|-----------------|---------------------------------|------------|---|
| Trimethoxyvinylsilane 2768-02-7 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |

Germ cell mutagenicity:

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

| Hazardous substances CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|------------------------------------|----------|--|--|---------|--|
| Trimethoxyvinylsilane 2768-02-7 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Trimethoxyvinylsilane 2768-02-7 | positive | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Trimethoxyvinylsilane 2768-02-7 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Trimethoxyvinylsilane 2768-02-7 | negative | intraperitoneal | | mouse | other guideline: |

Carcinogenicity

No data available.

Reproductive toxicity:

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

| Hazardous substances CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|------------------------------------|----------------------|-----------------------------|-------------------------|---------|---|
| Trimethoxyvinylsilane 2768-02-7 | NOAEL P 250 mg/kg | one- generation study | oral: gavage | rat | OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422) |
| Trimethoxyvinylsilane 2768-02-7 | NOAEL P 1.000 mg/kg | one- generation study | oral: gavage | rat | OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422) |
| Trimethoxyvinylsilane 2768-02-7 | NOAEL F1 1.000 mg/kg | one- generation study | oral: gavage | rat | OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422) |

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 |
|------------------------------------|--------------------|-------------------------|--|---------|---|
| Trimethoxyvinylsilane 2768-02-7 | NOAEL < 62,5 mg/kg | oral: gavage | daily | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

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 |
|------------------------------------|---------------|----------|---------------|---------------------|---|
| Trimethoxyvinylsilane 2768-02-7 | LC50 | 191 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 |
|------------------------------------|---------------|------------|---------------|---------------|--|
| Trimethoxyvinylsilane 2768-02-7 | EC50 | > 100 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

Chronic toxicity to aquatic invertebrates

No data available.

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 |
|------------------------------------|---------------|------------|---------------|---------|--|
| Trimethoxyvinylsilane 2768-02-7 | EC50 | > 100 mg/l | 72 h | | 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 |
|------------------------------------|---------------|--------------|---------------|---------|--|
| Trimethoxyvinylsilane 2768-02-7 | EC 50 | > 2.500 mg/l | 3 h | | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

| Hazardous substances CAS-No. | PBT / vPvB |
|------------------------------------|---|
| Trimethoxyvinylsilane 2768-02-7 | 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

08 04 10 Waste adhesives and sealants other than those mentioned in 08 04 09.

Waste code

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

SECTION 14: Transport information

- 14.1. UN number**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.2. UN proper shipping name**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.3. Transport hazard class(es)**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.4. Packing group**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.5. Environmental hazards**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.6. Special precautions for user**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.7. 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 (VOCV 814.018 VOC regulation CH) | 0 % |
| VOC content (2010/75/EU) | 2,1 % |

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.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

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.

